SCH-U450 Series

P O R T A B L E D U A L - B A N D

M O B I L E P H O N E

User Manual
Please read this manual before operating your phone, and keep it for future reference.

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Section 1: Getting Started

This section explains how to start using your SCH-U450 phone by activating your service, setting up your Voicemail, or getting an understanding of how this manual is put together.

Understanding this User Manual

The chapters of this guide generally follow the same order as the menus and sub-menus in your phone. A robust index for quick reference to most features begins on page 135.

Also included is important safety information that you should know before using your phone. Most of this information is near the back of the guide, beginning on page 107.

Notes and Tips

Throughout this guide there is text that is set apart from the rest. These are intended to point out important information, quick methods for activating features, to define terms, and more. The definitions for these methods are as follows:

- **Notes**: Explain alternative options within the current feature, menu, or sub-menu.
- **Tips**: Provide quick or innovative methods for performing functions related to the subject at hand.
- **Important**: Points out important information about the current feature that could affect performance, or even damage your phone.

Text Conventions

This manual provides condensed information about how to use your phone. To make this possible, the following terms and icon appear in place of repeatedly-used procedural steps:

highlight	Use the Navigation key ( ) to move a highlighting effect onto a menu item or screen item of interest.
select	After "highlighting" a menu item or screen item, press the **OK** key ( ) to launch, access, or save a highlighted menu item or screen field of interest.
→	Used in place of "select" in long "drill down" procedure steps.

Example: "...**Settings** → **Call Settings** → **Call Answer**..."

Installing the Battery

Note: Your phone comes packaged with a partially charged rechargeable standard Li-Ion battery and travel adapter.

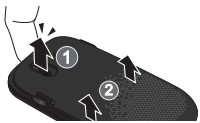
Important!: You must fully charge the battery the first time you use your phone, otherwise you could damage the battery.

1. Insert the top end of the battery first, matching the gold contacts on the inside of the battery to those on the phone.

2. Press lightly on the bottom end of the battery down into the phone until it slips into place.
3. Position the battery cover onto the phone (1) and press lightly downward (2) on the cover until it clicks into place.

Remove the Battery

1. Press and hold the key to turn off the phone (if on).
2. Separate the top of the battery cover from the phone (1) and lift the cover (2) off of the phone.



Warning!: When removing the battery cover with a finger nail, the nail can be broken.

3. Lift the battery (1) up and away from the phone (2), bottom end first.

Charging the Battery

Your phone is powered by a rechargeable standard Li-Ion battery. Only use Samsung-approved charging devices and batteries. Samsung accessories are designed to maximize battery life. **Use of other accessories may invalidate your warranty and may cause damage.**

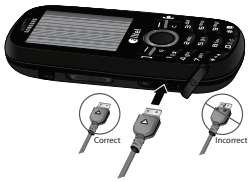
Use the Travel Adapter

The travel adapter included with your phone is a convenient, light-weight charger that rapidly charges your phone from any 120/220 VAC outlet.

1. Plug the large end of the Travel Adapter into a standard 120 VAC or 220 VAC wall outlet.

Important!: For connection to an electrical supply not located in North America, you must use an adaptor of the proper configuration for the power outlet. Use of the wrong adapter could damage your phone and void your warranty.

2. Insert the smaller end of the Travel Adapter into the charger/ accessory connector on the lower left side of your phone.



Warning!: Your touch screen responds best to a light touch from the pad of your finger or a non-metallic stylus. Using excessive force or a metallic object when pressing on the touch screen may damage the tempered glass surface and void the warranty (see *"Warranty Information"* on page 127).

Important!: You must unplug the adapter before removing the battery from the phone during charging to avoid damage.

Low Battery Indicator

The battery indicator ( ) in the upper-right corner of the display indicates power level. Monitor the battery strength and ensure your battery is adequately charged.

- Five bars ( ) indicate a full charge.
- An empty battery icon ( ) indicates a near empty battery.
- A blinking empty battery icon ( ) and a tone sounding indicate you have two to three minutes before the battery is too low to operate the phone.

If you continue to use your phone without charging its battery, the phone will shut down.

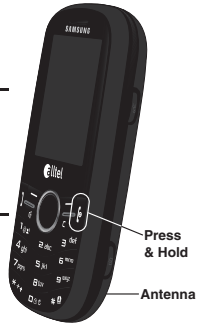
Activating Your Phone

Contact your Wireless Carrier and follow their instructions for obtaining service, if necessary. We suggest that you read this guide to fully understand the services your phone supports.

Turn Your Phone On

1. Press and hold for two or more seconds.

Note: As with any other radio-transmitting device, do not touch the antenna while using your phone as this can affect call quality and can cause the phone to operate at a higher power level than is necessary.



2. The phone begins searching for a network signal.
3. Once the phone finds a signal, the time, date, and day appear in the second line of the display.
4. You're now ready to place and receive calls.

Note: If you are outside of your carrier's coverage or roaming area, the No Service icon ( ) appears at the top of the phone's display. If you cannot place or receive calls, try later when service is available, or at another location.

Turn Your Phone Off

- Press and hold for two or more seconds. Your phone powers off.

Note: If your phone is on and you press for less than one second, the phone will not power off. This prevents your phone from being turned off accidentally.

Setting Up Your Voicemail

Voicemail allows callers to leave voice messages, which can be retrieved any time.

Note: Once your Voicemail account has been set up, you can use the **Voicemail** folder (under the **Message** menu) to view details of voice messages in your Voicemail box.

1. In Standby mode, press and hold or dial your own mobile number to dial Voicemail.
2. Follow the prompts in the new user tutorial to setup your mail box.

Listen to Voicemail

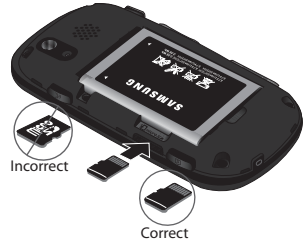
1. In Standby mode, press and hold or dial your own mobile number to dial Voicemail. After connecting, you will hear your voice greeting.
2. You are prompted to enter your password.

Memory Card (Optional)

Your phone has a Memory Card slot on its lower right side. You can install a microSD™ or microSDHC™ card to provide additional memory for storing files (such as, sound files, music, and photos) in your phone.

Install a Memory Card

1. Remove the battery cover from your phone. (For more information, refer to *"Remove the Battery"* on page 5.)
2. Insert the Memory Card — contacts side facing up and smaller end pointing toward the phone — into the Memory Card slot on the left side of the battery slot.



3. Press the Memory Card into the slot until the card locks into place.
4. Replace the battery cover.

Remove a Memory Card

1. Remove the battery cover from your phone. (For more information, refer to *"Remove the Battery"* on page 5.)
2. Press the Memory Card into the slot on the left side of the battery slot until the card lock releases.
3. Remove the Memory Card from the Memory Card slot.

4. If desired, install another Memory Card. (For more information, refer to *"Install a Memory Card"* on page 7.)
5. Replace the battery cover.

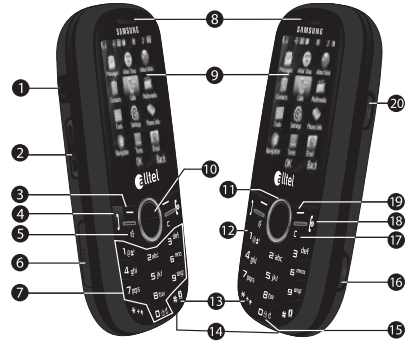
This section outlines some key features of your phone. It also describes the screen format and the icons that will be displayed when the phone is in use.

Features of Your Phone

- Domestic and international voice and text messaging service (available on participating networks).
- High speed data (CDMA 2000 1x Technology)
- Bluetooth® Wireless Technology (see Note)
- Global Positioning (GPS) Technology
- PIM Functions
- Picture (MMS) Messaging
- Text (SMS) Messaging
- Email Messaging
- QWERTY Keypad
- Built-in VGA Digital Camera
- Voice Dial
- Speakerphone

Note: The SCH-U450 supports the wireless handsfree profile and the serial port profile for Bluetooth® wireless technology. The SCH-U450 does not support Bluetooth OBEX profiles.

Closed View of Your Phone



Features

1. **Headset Connector** — Used to connect an optional wired headset or TTY device to your phone.
2. **Volume Key** — Lets you adjust the ring volume in Standby mode, adjust the voice volume during a call, or mute the ringer during an incoming call.

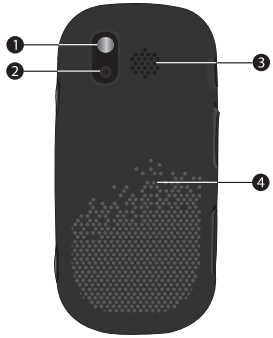
3. **Left Soft Key** — Used to navigate through menus and applications and to select the choice indicated at the bottom left corner of the Main LCD.
4. **Send Key** — Lets you place or receive a call. In Standby mode, press the key once to access the recent call log.
5. **Speakerphone Key** — Lets you enable/disable speakerphone mode.
6. **Power / Accessory Connector** — Used to plug in charging accessories and to connect any available accessory cables to your phone.
7. **Alpha-numeric Keys** — Use these keys to enter numbers, letters, and characters.
8. **Earpiece / Speaker** — Lets you hear ringing and alert tones, alarm tones, and the other parties to calls.
9. **Display** — Indicates the status of your phone, including numbers dialed, feature and function screens, status icons, message indicators, signal strength, and so on.
10. **OK Key** — Pressing when navigating through a menu accepts the highlighted choice in a menu.
11. **Navigation Key** — In Menu mode, lets you scroll through the phone menu options. In Standby mode, lets you access preset functions.
12. **Voicemail Key** — Lets you speed dial your Voicemail account to review your voice messages.
13. **Special Function Keys** — Enter special characters. Performs various functions.
14. **Microphone** — Lets the other party to a call hear you clearly when you are speaking to them.
15. **Lock Key** — In Standby mode, pressing and holding this key locks all keys except **Unlock**.
16. **Camera Key** — Launches the Camera feature of your phone.
17. **Clear Key** — Deletes characters from the display when you are in text entry mode. Press this key to return to the previous menu or screen when navigating features on your phone.
18. **End Key** — Ends a call. If you press and hold the END key, the power goes On or Off. When you receive an incoming call, press to send the call to voicemail.
19. **Right Soft Key** — Used to navigate through menus and applications and to select the choice indicated at the bottom right corner of the Main Display.
20. **Voice Recognition Key** — In Standby mode, pressing and holding this key launches VoiceSignal options.

Open View (Front) of Your Phone

Features

1. **Earpiece / Speaker** — Lets you hear ringing and alert tones, alarm tones, and the other parties to calls.
2. **Display** — Indicates the status of your phone, including numbers dialed, feature and function screens, status icons, message indicators, signal strength, and so on.
3. **Left Soft Key** — Used to navigate through menus and applications and to select the choice indicated at the bottom left corner of the Display.
4. **Email Key** — Launches the Email application.
5. **Shift Key** — Toggles **ABC** mode capitalization between **ABC**, **Abc**, and **abc**.
6. **Fn Key** — Text Function Key — Toggles text entry mode between **ABC** and **SYM** / **Sym** modes.
7. **Space Key** — Inserts a space character in a text entry.
8. **Arrow (Navigation) Keys** — In Menu mode, lets you scroll through the phone menu options. In Standby mode, lets you access preset functions and one user-defined function.
9. **OK Key** — When navigating through a menu accepts the highlighted choice in a menu.
10. **Next Line Key** — When entering text, ends the current line and moves you to the next line.
11. **Clear Key** — Deletes characters from the display when you are in text entry mode. Press this key to return to the previous menu or screen when navigating features on your phone.
12. **Right Soft Key** — Used to navigate through menus and applications and to select the choice indicated at the bottom right corner of the Display.

Closed Rear View of Your Phone



1. **Mirror** — Lets you position the Camera Lens to take self portraits.
2. **Camera Lens** — The lens of your built-in Camera.
3. **Speaker Grill** — Lets you hear ringing and alert tones, alarm tones, and the other parties to calls.
4. **Battery Cover** — Lets you access your phone's battery.

Command Keys

Soft Keys

Functions for the soft keys are defined by what appears above each in the display. There are two soft keys, the Left soft key (or) and the Right soft key (or).

Left Soft Key

Some functions of the Left soft key are as follows:

- In Standby mode, press the **Alltel Shop** (left) soft key (or) to launch the **Alltel Shop** screen.
- When the Left soft key function is Edit, press the **Edit** (left) soft key (or) to edit a Contact.

Right Soft Key

Some functions of the Right soft key are as follows.

- In Standby mode, press the **Messages** (Right) soft key (or) to launch the **Messages** menu.
- When the Right soft key function is Options, press the **Options** (right) soft key (or) and a pop-up menu appears.
- When the Right soft key function is Back, press the **Back** (right) soft key (or) to back up one menu level.

OK Key

- In Standby mode, press the **Menu** key (or) to launch the Main Menu.

- In a menu, press the **OK** key (or) to accept the highlighted selection.
- In camera mode, press the **OK** key (or) to take a photo or to create a Picture message.
- When the **OK** key function is Edit, press the **Edit** (OK) key (or) to edit a Draft message.

Clear Key

The **C** / **Clear** key (or) is used to erase or clear numbers, text, or symbols from the display. You can also use the or key to return to a previous menu.

- If you enter an incorrect character, briefly press or to backspace (and delete) the character.
- To erase the entire sentence, press and hold or .
- To back up one menu level, briefly press or .

End Key

- Press and hold the **End** key to turn on your phone.
- Briefly press once to disconnect a call.
- Press to return to Standby mode from any menu, or to cancel the last input.

Send Key

The **Send** key is used to answer calls, dial calls, and to recall the last number(s) dialed, received, or missed.

- Press once to answer calls.
- Enter a number and briefly press to make a call.
- Briefly press in Standby mode to display a list of recent calls to and from your phone.
- Press twice in Standby mode to call the most recent number.
- Press to pick up a waiting call. Press again to switch back to the other call.

Navigation Key

Use the directional keys on the Navigation key to browse menus, sub-menus, and lists. Each directional key also acts as a shortcut to launch applications.

Camera Key

Use the Camera key ( ) on the right side of the phone in Standby mode to:

- In Standby mode, press and hold to launch the **Camera** menu.
- In Camera mode, press to take pictures.

Understanding the Display Screen

1. The top line of your phone's display contains icons that indicate network status, battery power, signal strength, connection type, and more.
2. The center portion of the display shows information such as call progress information, messages, and photos.
3. The bottom line of the display shows current soft key functions. The sample screen shows that pressing the Left soft key (or) will launch the **Alltel Shop** screen and pressing the Right soft key (or) will show the **Messages** menu.

With the QWERTY keypad open, the display rotates automatically from portrait mode (as shown above) to landscape mode (as shown here).

Display Screen Icons

Your SCH-U450 phone can show you definitions of the icons that appear on the top line of the display.

To access the Icon Glossary:

- In Standby mode, press the **Menu** key ( ), then press 9 wxyz (for **Phone Info**) and 2 abc for **Icon Glossary**. A list appears showing all status icons (which appear on the top two lines of the display) and all Messages icons (which appear in the message folders).

Dialogue Boxes

Dialogue boxes prompt for action, inform you of status, or warn of situations such as low battery. Dialogue boxes and their definitions are outlined below.

- **Choice**
  - Example: "Save Message?"
- **Reconfirm**
  - Example: "Erase All Messages?"
- **Performing**
  - Example: "Sending..." "Connecting..."
- **Completed**
  - Example: "Message Saved"
- **Information**
  - Example: "New Message"

- **Error**
  - Example: “System Error!”
- **Warning**
  - Example: “Low Battery,” “Memory Full!”

Backlights

Backlights illuminate the display and the keypad. When you press any key or open the phone, the backlights come on. They go off when no keys are pressed within a period of time set in the **Backlight** menu.

Note: During a phone call, the display backlight dims and turns off after 10 seconds to conserve battery power, regardless of the Backlight setting.

For more information, refer to *“Backlight”* on page 92.

Your Phone’s Modes

Call Answer Mode

You can choose to answer a call by pressing any key except the key or key, or by pressing only the key. (For more information, refer to *“Call Settings”* on page 95.)

Input mode

Input mode determines how you enter text, numbers, and symbols. While at any text entry screen, press the Left soft key (or), then choose the input mode from the pop-up menu using the Navigation key. Optional input modes are **T9 Word**, **Abc**, **ABC**, **Symbol**, and **123**. (For more information, refer to *“Entering Text”* on page 42.)

Note: To enter numbers in your text, use **Abc** mode instead of **Sym** mode.

Tip: With the phone closed, you can also cycle between **T9 Word**, **Abc**, and **123** by repeatedly pressing and holding the key.

Lock Mode

When the phone is in Lock Mode, restrictions are placed on phone use. You can receive calls and messages, but cannot place outgoing calls (except for emergency numbers) until you unlock the phone. Lock Mode also restricts access to menus and the volume key. Unlock your phone by entering the lock code when prompted. (For more information, refer to *“Change Lock”* on page 98.)

Standby Mode

Standby mode is the state of the phone once it has found service and is idle. The phone goes into Standby mode:

- After you power the phone on.
- When you press after a call or from within a menu.

In Standby mode, you will see the time, day, and date as well as all phone status icons.

Place Calls in Standby Mode

1. While in Standby mode, enter a phone number, and press [ ] to place a call.
2. Press [ ] to return to Standby mode.

Receive Messages in Standby Mode

You can receive messages in Standby mode. When a message arrives, an alert tone sounds and the new message appears in the display. (For more information, refer to *"Receiving New Messages"* on page 49.)

Talk Mode

You can place and receive calls only when your phone is on. While in a call your phone is in talk mode. Press **Options** to display a list of menu options. (For more information, refer to *"In-Call Options Menu"* on page 22.)

Speakerphone Mode

To use your phone handsfree or to share a call with other people nearby, place your phone in Speakerphone Mode by pressing and holding the Speakerphone key ( ) until "**Speakerphone On**" appears in the display.

Caution!: Keep the phone away from you ear while in Speakerphone Mode. (For more information, refer to *"Responsible Listening"* on page 116.)

To disable Speakerphone Mode, press and hold until "**Speakerphone Off**" appears in the display.

Note: Your phone automatically enters Speakerphone Mode when you dial a call using the QWERTY keypad and the called phone begins ringing.

Enter/Exit Silent Mode

Silence the tones your keypad makes when you press a key.

To enter Silent Mode:

- In Standby mode, press and hold [#]. "**Entering Silent Mode**" briefly appears in the display and your phone returns to Standby mode.

To exit Silent Mode:

- While in Silent mode and Standby mode, press and hold [#]. "**Exit Silent Mode**" briefly appears in the display and your phone returns to Standby mode.

Vibrate Mode

- In Standby mode, repeatedly press the volume key ( ) down until **Vibrate** appears in the display.

  The volume key is on the upper left side of phone.

Adjust the Master Volume

1. In Standby mode, press the Volume key ( ) on the right side of the phone up or down. Options are:
   - **Silence All**
   - **Alarm Only**
   - **Vibrate**
   - **1 Beep**
   - **Low**
   - **Low/Medium**
   - **Medium**
   - **Medium/High**
   - **High**
2. When you are satisfied with the setting, press the key. Your phone returns to Standby mode.

Tip: You can also access the **Master Volume** screen by pressing the **Menu** key ( ), then pressing the 8 tuv, 3 def, and 1 keys. Use the Navigation key or the Volume key on the right side of your phone to adjust the Master Volume setting.

Note: The Vibrate icon ( ) appears in the display when the phone is in Vibrate mode.

Camera Mode

Camera mode lets you activate your phone's camera to take pictures. In Camera mode, you can also adjust the resolution and appearance of your pictures.

For more information, refer to *"Camera"* on page 59.

- **Entering Camera Mode** — In Standby mode, press the Camera key ( ) down and hold it — on the right side of the phone.
- **Exiting Camera Mode** — Press the key.

This section explains how to make or answer a call. This section also includes the features and functionality associated with making or answering a call.

Making a Call — Number Entry Dialing

1. With the phone on, enter the number you wish to call using the keypad.
2. Press [ ] to place the call.

Dialing Emergency Numbers

When you call an Emergency Number, such as 911, your phone locks itself in emergency mode, only allowing you to make calls to the emergency call center you originally contacted. This enables emergency operators to more easily dispatch aid, such as police, fire fighting, and emergency medical personnel.

1. With the phone on, enter 911 using the keypad.
2. Press [ ] to place the call.

Important!: Emergency number 911 is preset into your phone. You can dial this number almost any time, even when the phone is locked or restricted.
If you call 911 an audible tone is heard and an Emergency prompt appears in the display for the duration of the call.

Important!: Because of various transmission methods, network parameters, and user settings necessary to complete a call from your wireless phone, a connection cannot always be guaranteed. Therefore, emergency calling may not be available on all wireless networks at all times.

Important!: DO NOT depend on this phone as a primary method of calling 911 or for any other essential or emergency communications.

Note: You can specify other numbers than 911 as emergency numbers using the **Emergency #** settings. (For more information, refer to *"Emergency #"* on page 99.)

Manual Pause Calling

When you call automated systems (like banking services), you are often required to enter a password or account number. Instead of manually entering the numbers each time, you can store the numbers in your Contacts along with special characters called pauses.

- **P Pause** — A hard pause stops the calling sequence until you press [ ].
- **T Pause** — A four-second pause stops the calling sequence for four seconds and then automatically sends the remaining digits.

To manually call a number with pause(s) without storing it to your Contacts:

1. Enter the number you wish to call.
2. Press **Options**.

   A pop-up menu containing the following options appears in the display:

   - **P Pause** — a hard pause (awaits input from you).
   - **T Pause** — a four-second pause.

Tip: You can create pauses longer than four seconds by entering multiple T Pauses.

3. Select the desired pause to enter it into your number sequence.
4. Press [ ] to call the number.

Making a Call — Speed Dialing

You can store phone numbers and contact names in your phone's Contacts list. Speed Dialing lets you quickly and easily dial any contact in your Contacts list by using that contact's location number in the list. You can assign and change location (speed dial) numbers for your contacts. (For more information, refer to *"Assigning Speed Dial Numbers"* on page 38.)

One-Touch Dialing

Speed Dial numbers 002 through 009 are special One-Touch dialing numbers. You can call the phone numbers stored in your phone's Contacts list and assigned Speed Dial numbers 002 through 009 by pressing and holding a single key.

Example: For Speed Dial number 003, press and hold 3 def until the name and number appear in the display and the number is dialed.

Two-Touch Dialing

Memory locations 010 through 099 are special Two-Touch dialing locations.

Example: For Speed Dial number 013, briefly press 1 @, then press and hold 3 def until the name and number appear in the display and the number is dialed.

Three-Touch Dialing

Memory locations 100 through 999 are special Three-Touch dialing locations.

Example: For Speed Dial number 113, briefly press 1 @, briefly press 1 @ again, then press and hold 3 def until the name and number appear in the display and the number is dialed.

Pause Dialing From a Contacts Entry

- If you speed dial a contact that contains four-second (T) pause(s) simply wait for the pauses to pass and the dialing to complete.
- If you speed dial a contact that contains hard (P) pauses, wait for the appropriate prompt(s) from the number you are calling (credit card number, bank account number, and so on) and press [OK] to continue your dialing sequence.

Note: For more information about dialing pauses, refer to *"Manual Pause Calling"* on page 18.

Making a Call — Quick Search Dialing

Use the **Quick Search** feature to dial any number stored in your Contacts list by pressing the number keys that correspond to the first few letters of a Contact name.

Note: For information on activation, see *"Quick Search"* on page 101.

Quick Search Dialing a Contact

To find and dial a Contact, do the following:

1. In Standby mode, press the number keys that correspond to the first few letters of the Contact name, as shown.
2. Press the Up navigation key. The Contact list **Find** screen appears showing the desired Contact name.
3. Highlight the desired Contact name, then press [OK] to call the number.

Making a Call — Voice Dialing

Your U450 mobile phone includes state-of-the-art voice recognition software that lets you dial numbers using your voice.

Using Voice Dial

Use the **Voice Dial** command to dial any number stored in your Contacts list by saying the name of the contact (Name Dialing). You can also use Voice Dial to dial any valid telephone number, even numbers not stored in your contact list, by speaking the individual digits in the number (Digit Dialing).

Voice Dialing Tips:

- Wait for the beep before speaking.
- Speak clearly at a normal volume, as if you were talking to someone on the phone.
- When saying a name, say the first name then the last name.

Dialing a Name

To dial a name, do the following:

1. In Standby mode, press and hold [PTT] (on the right side of your phone).

   "**Say a Command**" appears in the display and is pronounced through the earpiece.

2. Say, "**Call**". You are prompted to "**Say the name or #**".
3. Speak clearly and say the name of a person in your Contacts list, first name followed by last name.

   If the name is recognized, Voice Dial repeats the name and dials the number.

   If Voice Dial is not sure which name you said, it displays a choice list of up to three names and prompts you with "**Did you say?**" followed by the first name on the list.
4. Say "**Yes**" to confirm the name or "**No**" to hear the next name, or use the keypad to select the correct name from the list. (For more information, refer to *"Choice Lists"* on page 76.)
   - Press **Repeat** to say the name again.
   - Press C to exit Voice Dial without dialing.

   If the recognized name has multiple numbers stored for it (that is, Home, Work, Mobile, and so on), Voice Dial displays the possible choices and prompts you with "**Which number?**"
5. Say one of the following number types:
   - "**Home**"
   - "**Work**"
   - "**Mobile**"

   Voice Dial dials the specified number.

Dialing a Number

To dial a number using Voice Dial, do the following:

1. In Standby mode, press and hold VC (on the right side of your phone).

   "**Say a Command**" appears in the display and is pronounced through the speaker.
2. Say "**Call**". VoiceSignal prompts you to "**Say the name or #**".
3. Speak clearly and say the telephone number of the person you want to call. *For example, say "7 8 1 9 7 0 5 2 0 0."*

   If it recognizes the number, Voice Dial repeats and dials the number. If Voice Dial is not sure it has recognized the number, it displays a choice list of up to three numbers and prompts you with "**Did you say?**" followed by the first number on the list.
4. Say "**Yes**" to confirm the number or "**No**" to hear the next one, or use the keypad to select the correct number from the list.

   (For more information, refer to *"Choice Lists"* on page 76.)
   - Press **Repeat** to say the name again.
   - Press C to exit Voice Dial without dialing.

Pause Dialing From a Contacts Entry

- If you voice dial a contact that contains (hard waits) P Pause(s), wait for the appropriate prompt(s) from the number you are calling (credit card number, bank account number, and so on) and enter the appropriate response(s).
- If you voice dial a contact that contains (four-second) T Pause(s) simply wait for the pauses to pass and the dialing to complete.

Answering a Call

Your phone notifies you of a call in the following ways:

- A ring tone sounds and/or your phone vibrates (Your phone provides eight ring volume settings including: **Silence All**, **Alarm Only, Vibrate**, **1 Beep**, **Low**, **Low/Medium**, **Medium**, **Medium/High**, or **High**, and/or different ring types to distinguish callers.)
- A phone number (unless blocked by the caller) and a name appear in the display (If the caller's number and name are stored in your Contacts list).
- If the caller can't be identified, **Call from unavailable#**, **Call from restricted number**, or no number appears in the display.
- Your phone continues to notify you of the call until one of the following events occurs:
- You answer the call.
- You ignore the call.
- The calling party ends the call.
- The call is sent to voicemail.

Answering an Incoming Call

▶ Press [ ]. The ring tone and/or vibration stop and the caller's voice can be heard in the earpiece.

Tip: You can set your phone to answer calls automatically or when you press any key but [ ]. (For more information, refer to *"Call Settings"* on page 95.)

In-Call Options Menu

Access numerous menus and features even while in a call.

Note: If the call is disconnected while accessing an In-Call Options menu option, the selected option's screen disappears from the display and the phone eventually returns to standby mode.

1. While in a call, press the **Options** soft key. The following menu items appear in the display:
   - **Contacts** — The Contacts **Find** screen appears in the display.
   - **Call History** — View, respond to, and manage your recent outgoing, incoming, and missed calls.
   - **Messaging** — The Messages menu appears in the display. (For more information, refer to *"Messaging"* on page 45.)
   - **Connect Bluetooth** — Connects a Bluetooth device, such as a headset, in place of the phone's earpiece and microphone.
   - **Speakerphone** — Enables Speakerphone mode to share the call with others nearby.

Do one of the following:

- Use the Navigation key to highlight a menu or feature. Press the key to open the highlighted menu or to activate the highlighted feature.
- Press the key to exit the menu.

Tip: You can block sound going to the other party(ies) on this call by pressing **Mute** / **Unmute**. This can reduce noise on conference calls.

You can launch Speakerphone mode to conduct this call hands-free by pressing **Options** Speakerphone.

Ignoring a Call

When you ignore an incoming call, the call is immediately forwarded to your voice mail.

- During an incoming call, press **Ignore**. The caller is forwarded to your voice mail.

Adjusting the Call Volume

In Standby mode, repeatedly press the Volume key ( ) down until the Call Volume Level desired appears in the display. The volume key is on the left side of phone.

Calls Log

The Calls log retains information about Outgoing, Incoming, and Missed calls. You can also view times for your last call and the time totals for all calls.

Review the Calls Log

1. In Standby mode, press **Menu**, then select **Calls**.

   The following Calls log options appear in the display:

   - **Outgoing Calls**
   - **Incoming Calls**
   - **Missed Calls**
   - **All Calls**
   - **Call Timer**
   - **Data Counter**
2. Select the Calls log that you wish to review or the function you wish to access.

Note: In cases where a Calls log entry concerns a call to or from a Contacts entry, the Contact name associated with the number appears in the Calls log list instead of the number.

Outgoing Calls

Your phone retains information about the last 90 outgoing calls and stores them in the Outgoing calls log. You can review the Outgoing calls log for the time and date of a call, as well as other information.

Note: In Standby mode, you can quickly view your most recent calls of all types by briefly pressing 3. A list containing up to 270 of your most recent outgoing, incoming, and missed calls appears in the display.

1. In Standby mode, press **Menu**, then select **Calls** ➔ **Outgoing Calls**. A list of your outgoing calls appears in the display.
2. Select a call to view further information about it.
3. Press **Options**. A pop-up menu containing the following options appears in the display:
   - **Save** — Save the number to your Contacts. The following Save options are available:
     - **Create New** — Save as a new contact.
     - **Update Existing** — Update an existing contact.
   - **Details** — View details of the call. This option only displays if the call is from a saved number.
   - **Erase** — Erase the selected call from your Outgoing call log.
   - **Lock/Unlock** — Protect the selected call from being erased.
   - **Erase All** — Erase all calls from your Outgoing call log.
   - **View Timer** — Shows the number of calls and/or the total time spent on the Last Call, Outgoing Calls, Incoming Calls, Roaming Calls, All Calls, Last Reset, and Lifetime Calls.
4. Press **Msg**. The following options appear in the display:
   - **Text Message** — Lets you send a text message to the selected number called.
   - **Picture Message** — Lets you send a picture message to the selected number called.
   - **Email** — Lets you send an Email message to the selected number called.

Note: For more information, refer to *"Creating and Sending New Messages"* on page 45.

5. Select an option to perform its function.

Incoming Calls

Your phone retains information about the last 90 Incoming calls and stores them in the Incoming call log. You can review the Incoming call log for the time and date of the call, as well as other information.

1. In Standby mode, press **Menu**, then select **Calls** ➔ **Incoming Calls**. A list of your Incoming calls appears in the display.
2. Select a call to view further information about it.
3. Press **Options**. A pop-up menu containing the following options appears in the display:
   - **Save** — Save the number to your Contacts. The following Save options are available:
     - **Create New** — Save as a new contact.

– **Update Existing** — Update an existing contact.

- **Details** — View details of the call. This option only displays if the call is from a saved number.
- **Erase** — Erase the selected call from your Incoming calls log.
- **Lock/Unlock** — Protect the selected call from being erased.
- **Erase All** — Erase all calls from your Incoming calls log.
- **View Timer** — Shows the number of calls and/or the total time spent on the Last Call, Outgoing Calls, Incoming Calls, Roaming Calls, All Calls, Last Reset, Lifetime Calls.

4. Press **Msg**. The following options appear in the display:
   - **Text Message** — Lets you send a text message to the selected calling number.
   - **Picture Message** — Lets you send a picture message to the selected calling number.
   - **Email** — Lets you send an Email message to the selected number called.

Note: For more information, refer to *"Creating and Sending New Messages"* on page 45.

5. Select an option to perform its function.

Missed Calls

Your phone retains information about the last 90 missed calls (calls that were never picked up) and stores them in the Missed call log. You can review the Missed call log for the time and date of the call, as well as other information.

1. In Standby mode, press **Menu**, then select **Calls** → **Missed Calls**. A list of your missed calls appears in the display.
2. Select a call to view further information about it.
3. Press **Options**. A pop-up menu containing the following options appears in the display:
   - **Save** — Save the number to your Contacts. The following Save options are available:
     – **Create New** — Save as a new contact.
     – **Update Existing** — Update an existing contact.
   - **Details** — View details of the call. This option only displays if the call is from a saved number.
   - **Erase** — Erase the selected call from your Missed call log.
   - **Lock/Unlock** — Protect the selected call from being erased.
   - **Erase All** — Erase all calls from your Missed call log.
   - **View Timer** — Shows the number of calls and/or the total time spent on the Last Call, Outgoing Calls, Incoming Calls, Roaming Calls, All Calls, Last Reset, and Lifetime Calls.
4. Press **Msg**. The following options appear in the display:
   - **Text Message** — Lets you send a text message to the selected called number.

- **Picture Message** — Lets you send a picture message to the selected called number.
- **Email** — Lets you send an Email message to the selected number called.

Note: For more information, refer to *"Creating and Sending New Messages"* on page 45.

5. Select an option to perform its function.

All Calls

You can review all of the calls log entries (outgoing, incoming, and missed calls) for the time and date of a call, as well as other information.

1. In Standby mode, press **Menu**, then select **Calls** ➔ **All Calls**. A list of all logged calls appears in the display.
2. Select a call to view further information about it.
3. Press **Options**. A pop-up menu containing the following options appears in the display:
   - **Save** — Save the number to your Contacts. The following Save options are available:
     - **Create New** — Save as a new contact.
     - **Update Existing** — Update an existing contact.
   - **Details** — View details of the call. This option only displays if the call is from a saved number.
   - **Erase** — Erase the selected call from your Calls log.
   - **Lock/Unlock** — Protect the selected call from being erased.
   - **Erase All** — Erase all calls from your Calls log.
   - **View Timer** — Shows the number of calls and/or the total time spent on the Last Call, Outgoing Calls, Incoming Calls, Roaming Calls, All Calls, Last Reset, Lifetime Calls.
4. Press **Msg**. The following options appear in the display:
   - **Text Message** — Lets you send a text message to the selected calling/called number.
   - **Picture Message** — Lets you send a picture message to the selected calling/called number.
   - **Email** — Lets you send an Email message to the selected number called.

Note: For more information, refer to *"Creating and Sending New Messages"* on page 45.

5. Select an option to perform its function.

Call Timer

View the duration of your last call, total calls, and calls made during the life cycle of you phone using the Call Timer feature.

Note: Call Timer is not for billing purposes.

1. In Standby mode, press **Menu**, then select **Calls** ➔

Call Timer.

The following options appear in the display:

- **Last Call** — View the duration of your last call.
- **Outgoing Calls** — View the duration of the total outgoing calls made on your phone since the last erasure.
- **Incoming Calls** — View the duration of the total incoming calls received on your phone since the last erasure.
- **Roaming Calls** — View the total calls duration on your phone while roaming since the last erasure.
- **All Calls** — View the duration of the total call, incoming, outgoing, and data calls made on your phone since the last erasure.
- **Last Reset** — View the time and date all timers were last reset.
- **Lifetime Calls** — View the duration of all calls since your phone was activated.

2. Press **Reset** to reset a selected counter except Last Reset and Lifetime Calls.
3. Press **Reset All** to reset all counters except Lifetime Calls.
4. Press ● or C to exit the list.

Note: Although Total call timers can be erased, the Lifetime call timer can never be erased.

Data Counter

View the amount of Transmit data, Receive data, and Total data transmitted or received since the last time you reset the data counters, and the Lifetime amount of data transmitted or received.

Note: Data Counter is not for billing purposes.

1. In Standby mode, press **Menu** ➔ **Calls** ➔ **Data Counter**. The following options appear in the display:
   - **Transmitted** — View the total amount of data transmitted by your phone since the last reset.
   - **Received** — View the total amount of data received by your phone since the last reset.
   - **Total** — View the total amount of data sent or received by your phone since the last reset.
   - **Last Reset** — View the time and date all timers were last reset.
   - **Lifetime Data Counter** — View the total amount of data sent or received by your phone since activation (Lifetime Data Counter cannot be reset).
2. Press **Reset** to reset a selected counter except Last Reset and Lifetime Data Counter.
3. Press **Reset All** to reset all counters except Lifetime Data Counter.

4. Press OK or C to exit the list.

Note: Although Total data counters can be erased, the Lifetime Data Counter can never be erased.

Roaming

What is Roaming?

Roaming lets you use your phone when you travel outside of your Wireless Provider's coverage area. The Roaming icon ( ) and a "**Roaming**" banner appear in the display when you are roaming, and extra charges may apply when making or receiving calls.

Note: Some features may be unavailable while roaming. Roaming can also consume additional power from the battery, requiring more frequent recharging. Contact your Wireless Provider for more information about Roaming.

How Roaming Works

Roam Option lets you set roaming preferences if you move in and out of your home network. The following roaming options are available:

- **Home Only** — Your phone is available for normal operation only in the designated coverage area.
- **Automatic-A** — Your Wireless Provider's Preferred Roaming List (PRL) of networks is used to acquire service. If no preferred networks are found, any digital "A" system is acquired.
- **Automatic-B** — Your Wireless Provider's PRL is used to acquire service. If no preferred networks are found, any digital "B" system is acquired.

Note: For more information, refer to *"System Select"* on page 100.

Section 4: Menu Navigation

This section explains the menu navigation for your phone. It also includes an outline of all the available menus associated with your phone.

Note: Although all procedures in this section are written for the phone keypad, you can also perform these procedures using the QWERTY keypad.

Menu Navigation

Access the menus and sub-menus in your phone using the Navigation key ( ) and soft keys (or), or use a shortcut.

1. In Standby mode, press **Menu** ( ). The Main Menu (the first of many) appears in the display.
2. Use the Navigation key to browse through the menus.
3. Press or to enter the menu or sub-menu that appears in the display.
4. Press **Back** or the key to return to the previous menu.

Return to the Previous Menu

- Press **Back** to return to a previous menu.
- When **Back** does not appear in the display, press to return to the previous menu.

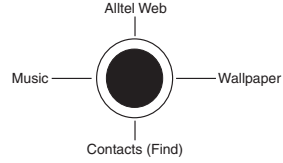
Menu Shortcuts

Use shortcuts to quickly access menus and sub-menus. Press **Menu** ( ), then press the number to the left of the menu to jump to the desired menu, sub-menu, or feature.

Example: To jump to the **Outbox** sub-menu, press **Menu** ( ), then press 1 (for **Messages**) and 3 def (for **Outbox**).

Navigation Key Shortcuts

In Standby mode and with the QWERTY keypad closed or open, press a Navigation key Up/Down, Left/Right, to launch the key's corresponding application in the pattern shown here.

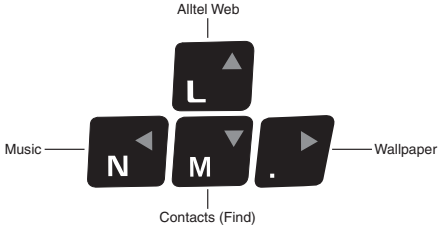


Tip: In Standby mode and with the QWERTY keypad open, the Navigation key's shortcut pattern rotates 90° to match the orientation of the phone.

QWERTY Keypad Shortcuts

Note: The QWERTY keypad shortcuts are not available when Quick Search is enabled. (For more information, refer to *"Quick Search"* on page 101.)

In Standby mode and with the QWERTY keypad open, you have the option of using the arrow keys on the keypad itself to launch applications, as shown here.



This section explains how to manage your daily contacts by storing their name and number in your Contacts. Contacts entries can be sorted by name.

Your Contacts List

Your Contacts list can store up to 1000 entries, with each contact having up to five associated phone numbers, two Email addresses, and a picture ID.

Each phone number can be up to 48 digits in length, including hard pauses. Contact names can be up to 32 characters in length. You can also specify a memory location for each entry, and you can restrict access to the Contacts list to prevent unauthorized use.

Tip: One-Touch, Two-Touch, and Three-Touch Dialing allow you to call numbers stored in your Contacts list faster. (See page 19.)

Open Your Contacts List

1. In Standby mode, press **Menu** (●) and select **Contacts**. The following Contacts sub-menus and options appear in the display:
   - **Find** — Find a phone number by entering a Contact name.
   - **Add New Contact** — Add a number or Email to your Contacts.
   - **Speed Dial** — Assign speed dial numbers to your Contacts.
   - **Group** — Rename one of your five Contacts groups.
   - **Memory Info** — View available memory for dial entries.
2. Select the Contacts sub-menu or option of your choice.

Tip: You can also access a sub-menu or menu option by pressing the number key corresponds to the menu item number. For example, press 2 abc for **Add New Contact**.

Adding a New Contacts Entry

You can add an entirely new entry to your Contacts list or add information to an existing entry.

Using the Contacts Add Option

1. In Standby mode, press **Menu** (●) and select **Contacts** ➔ **Add New Contact**. The **New Contact** screen appears in the display with the **Name** field highlighted.
2. Enter a name or phrase to associate with the type using the keypad. (For more information, refer to *"Entering Text"* on page 42.)
3. Press the Navigation key Up/Down to highlight each field.
4. Enter a phone number (**Mobile**, **Home**, **Work**, or **Mobile 2**) or an Email address (**Email**) for the new Contacts entry.

5. If desired, assign the new Contact to a **Group**. This lets you send messages to and find this Contact and other related contacts. (For more information, refer to *"Renaming a Contacts Group"* on page 40.)
6. If desired, select a unique **Ringtone** and/or **MsgRingtone** to identify this new Contact. (For more information, refer to *"Ringer Type"* on page 93.)
7. If desired, enter an additional phone number (**Mobile 2** or **Fax**) or Email address (**Email 2**) for the new Contacts entry.
8. If desired, select an identifying image by highlighting the photo ID field and pressing **Set**. The **My Images** screen appears in the display. (For more information, refer to *"My Images"* on page 69.) Select an image and press **OK** ( ).
9. Press **SAVE** ( ) to save the new Contacts entry.

Saving a Number from a Call

Once you've finished a call, you can save the number of the caller to your Contacts list.

Note: If the call was incoming and Caller ID information was unavailable, then the **Save** option is also unavailable.

1. After you press to end your call, the call time, length of call, phone number, and name of the other party (if available) appear in the display.
2. Press **Save**. The **Save** screen appears in the display showing the following options:
   - **Create New** — Lets you create a new Contacts entry.
   - **Update Existing** — Lets you add the number or Email address you just entered to an existing Contacts entry.

Tip: You can also store a phone number from Standby mode by entering the number, and pressing **Save**.

Creating a new Contacts entry:

3. Select **Create New**. The following (number type) icons appear in the display:

4. Select the number type that matches your new entry. The **New Contact** screen appears in the display with the number being save populating the selected number type field. (For more information on creating a new Contacts entry, see *"Using the Contacts Add Option"* on page 31.)

Adding the number to an existing Contacts entry:

5. Use the navigation keys to highlight **Update Existing**, then press ●. The **Update Existing** screen appears in the display showing your current Contacts list.
6. Enter the first few characters of the Contacts entry name under which you will store the saved number. (For more information on finding a Contacts entry, see *"Using the Contacts Add Option"* on page 31.)
7. Select the desired Contacts entry. The following (number type) icons appear in the **Update Existing** screen:

8. Select the appropriate unassigned number type. The **Edit Contact** screen appears in the display.
9. Make any added changes you wish to the Contacts entry. (For more information, refer to *"Editing an Existing Contact Entry"* on page 36.)
10. Press **SAVE** (●) to save the entry.

Storing Number from a Calls Log

You can store numbers from the Calls logs to your Contacts.

1. In Standby mode, press **Menu** (●), then select **Calls**.
2. Select from the following Calls logs:
   - **Outgoing Calls**
   - **Incoming Calls**
   - **Missed Calls**
   - **All Calls**

   A list of your calls appears in the display.
3. Highlight the number you wish to store in **Contacts**.
4. Press **Options**. The following options appear in the display:
   - **Save** — Saves the selected number to your Contacts list.
   - **Details** — View details of the call. This option only displays if the call is from a saved number.
   - **Erase** — Deletes the selected number from the selected Calls log.
   - **Lock / Unlock** — Prevents/allows deletion of the selected number.
   - **Erase All** — Deletes all numbers from the selected Calls log.
   - **View Timer** — Shows the number of calls and/or the total call times for the Last Call, Outgoing Calls, Incoming Calls, Roaming Calls, All Calls, Last Reset, and Lifetime Calls timers for the selected Calls log.
5. Select **Save**. The following options appear in the display:
   - **Create New** — Lets you create a new Contacts entry.
   - **Update Existing** — Lets you add the number or Email address you just entered to an existing Contacts entry.

For more information on saving the number, see *"Saving a Number from a Call"* on page 32.

Finding a Contacts Entry

Voice Method

Use the VoiceSignal **Contacts** command to view contact information for any named contact stored in your Contacts list by saying the name.

Note: The **Contacts** command shows the requested contact information in the display but does not dial any phone numbers for the contact.

To look up information for a specific contact:

1. In Standby mode, press and hold for **Voice Service**.

   "**Say a Command**" appears in the display and is pronounced through the speaker.
2. Say "**Lookup**".

   VoiceSignal prompts you to "**Say the name or #**."
3. Speak clearly and say the full name of the person you want to call, exactly as it is entered in your contact list.
   - If VoiceSignal recognizes the name you said, the contact information for that name appears in the display.
   - If VoiceSignal does not recognize the name you said, a choice list of up to three names appears in the display, and VoiceSignal prompts you with "**Did you say?**" followed by the first name on the list.
4. Say "**Yes**" to confirm the name or "**No**" to hear the next name, or use the keypad to select the correct name from the list. (For more information, refer to *"Choice Lists"* on page 76.)
   - To say the name again, press **Repeat**.
   - To exit VoiceSignal without dialing, press .
5. The contact information for the name you selected appears in the display.
6. For more information, refer to *"After You Find the Desired Contact"* on page 36.

Keypad Methods

Find by Name

If you have stored a named contact in your Contacts list, Find lets you locate the entry quickly.

1. In Standby mode, do one of the following:
   - Press the Down navigation key (Contacts Find shortcut).
   - Press **Menu** ( ) and select **Contacts** → **Find**.

   The **Find** screen appears in the display with an alphabetical list of Contacts showing.
2. Enter the first few characters of the name of the contact as it appears in your Contacts list.

Example: If you saved a contact name as "Amy Smith", begin your search for that contact by pressing 2 abc for "A".

Note: As you enter letters, the entry names of the closest matches (thus far) appear in the display.

3. For more information, refer to *"After You Find the Desired Contact"* on page 36.

Quick Search

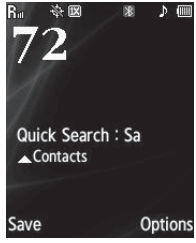
The Quick Search setting must be set to On. (For more information, refer to *"Quick Search"* on page 101.)

1. In Standby mode, press the first few numeric keys that correspond to the letters of the Contact name.

   For example, to search for "Sally" you could enter:

   7 pqrs 2 abc

   S A



2. Press the Up navigation key. The Contacts **Find** screen appears in the display with the first Contact name matching your entry highlighted.
3. For more information, refer to *"After You Find the Desired Contact"* on page 36.

Search by Number

This option lets you find a Contacts list entry by one of its phone numbers.

1. In Standby mode, enter the first few numbers of the Contacts list entry you wish to find (such as the area code or area code and exchange — for example, 888-987).
2. Press **Options**. The following menu options appear in the display:
   - **Search** — Lets you find Contacts list entries by their phone numbers.
   - **P Pause** — Adds a hard pause (awaits input from you).
   - **T Pause** — Adds a four-second pause.
   - **Send Message** — Lets you send a text or picture message or Email to the entered number.
3. Select the **Search** option. The **Find** screen appears in the display listing all phone numbers in your Contacts list that contain the entered digits.
4. For more information, refer to *"After You Find the Desired Contact"* on page 36.

After You Find the Desired Contact

5. When the desired Contacts entry is listed in the display, highlight the contact using the navigation keys (if necessary), then do one of the following:
   - To dial the number associated with the named Contact, press [1].
   - To change the information about the contact, press **Edit**.
   - To show information about the contact, press **VIEW**.
   - To access other options, press **Options**. The following options appear in the display:
     - **New Contact** — Lets you add a new number to your Contacts list or to the selected contact.
     - **Erase** — Lets you delete the highlighted contact.
     - **Send Message** — Lets you send a text or picture message or Email to the selected contact.
     - **Call** — Lets you place a call to the highlighted contact.
     - **Send Name Card Via Bluetooth** — Lets you send a Name Card containing the selected Contact's information to another Bluetooth device.
     - **Set as/Remove Speed Dial** — Lets you assign a speed dial number to a contact. You can select the number by either entering it in the **Go To** box or by using the Navigation key, then press [OK] to set the number.

Editing an Existing Contact Entry

Once stored in the Contacts, an entry can be changed quite easily.

1. Find the desired entry in the Contacts list. (For more information, refer to *"Finding a Contacts Entry"* on page 34.)
2. Press **Edit**. The **Edit Contact** screen appears in the display with the contact name highlighted.
3. Highlight a number stored in this contact entry.
4. To backspace and delete numbers, press [C].
5. To clear all numbers in the highlighted field, press and hold [C].

Note: You can also add numbers (such as a second Mobile number or a Fax number) to the entry, assign it to a Group, and add other information.

6. When you're finished editing the entry, press [OK]. Your changes are saved and a confirmation message appears in the display.

Adding Pauses to Contacts Numbers

When you call automated systems (like banking services), you are often required to enter a password or account number. Instead of manually entering the numbers each time, you can store the numbers in your Contacts along with special characters called pauses.

- **P Pause** — A hard pause stops the calling sequence until further input from you.

- **T Pause** — A four-second pause stops the calling sequence for four seconds and then automatically sends the remaining digits.

Tip: You can enter multiple four-second pauses to extend the length of a pause. For example, two consecutive four-second pauses cause a total pause time of eight seconds.

Note: Keep in mind that pauses count as digits towards the 32-digit maximum.

Store Pauses in a New Contacts Entry

1. In Standby mode, enter the number you wish to store (such as your bank's teleservice number).
2. Press **Options**.

   The following menu options appear in the display:

   - **Search** — Lets you find Contacts list entries by their phone numbers.
   - **P Pause** — Adds a hard pause (awaits input from you).
   - **T Pause** — Adds a four-second pause.
   - **Send Message** — Lets you send a text or picture message or Email to the entered number.
3. Select the pause option of your choice to enter the highlighted pause into your number sequence.
4. When you're finished entering the number and pauses, press **Save** to store the number in your **Contacts**.

Add Pauses to an Existing Contacts Entry

1. Find the desired entry in the Contacts list. (For more information, refer to *"Finding a Contacts Entry"* on page 34.)
2. Press **Edit**. The **Edit Contact** screen appears in the display with the contact name highlighted.
3. Highlight a number stored in this contact entry.
4. Use the Left and Right navigation keys to place the cursor where you want to add a pause (usually at the right-hand end of the number).
5. Press **Options**. The following menu options appear in the display:
   - **Set Speed Dial** / **Remove speed dial** — lets you assign or remove a Speed Dial number for this Contacts entry.
   - **Set as default** — your phone automatically dials this number when you find this Contacts entry and press the key.
   - **P Pause** — a hard pause (awaits input from you).
   - **T Pause** — a four-second pause.
6. Select the pause option of your choice to enter the highlighted pause into your number sequence.
7. When you're finished entering pauses, press to save your changes to the number in your Contacts list.

Assigning Speed Dial Numbers

When you add or edit an entry to the Contacts list, you have the option of assigning a Speed Dial number using the Options pop-up menu or of returning to the Contacts menu and using the Speed Dial option. You can also change a contact's Speed Dial number.

1. Find and highlight the desired entry in the Contacts list. (For more information, refer to *"Finding a Contacts Entry"* on page 34.)
2. Do one of the following:

Using the **Options** soft key:

3. Press **Options**. The following menu options appear in the display:
   - **New Contact** — Lets you add a new number to your Contacts list or to the selected contact.
   - **Erase** — Lets you delete the highlighted contact.
   - **Send Message** — Lets you send a text or picture message or Email to the selected contact.
   - **Call** — Lets you place a call to the highlighted contact.
   - **Send Name Card Via Bluetooth** — Lets you send a Name Card containing the selected Contact's information to another Bluetooth device.
   - **Set as Speed Dial** — Lets you assign a speed dial number to a contact. You can select the number by either entering it into the Go To box or using the navigation keys, then press ● to set the number.
4. Select **Set as Speed Dial**. The **Speed Dial** menu appears in the display.
5. Select an unassigned Speed Dial number to assign it to the selected Contact. You are prompted to confirm the assignment.
6. Press **Yes** to assign the selected Speed Dial number.

Using the **Edit** soft key:

7. Press **Edit**. The **Edit Contact** screen appears in the display with the Contact name highlighted.
8. Highlight a number stored in this Contact entry.

Note: If a Contact has more than one stored number (such as **Home** and **Office**), you can select which of these numbers your phone will dial when you speed dial that Contact.

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9. Press **Options**. The following menu options appear in the display:
   - **Set Speed Dial** / **Remove speed dial** — lets you assign or remove a Speed Dial number for this Contacts entry.
   - **Set as default** — your phone automatically dials this number when you Find this Contacts entry and press 3 .
   - **P Pause** — a hard pause (awaits input from you).
   - **T Pause** — a four-second pause.

10. Select **Set as/Remove Speed Dial**. The **Speed Dials** screen appears in the display. (If a speed dial number has been set previously, you can remove it by pressing . If none has been set, continue with the next step.)
11. Select an unassigned Speed Dial number to assign it to the selected Contact. You are prompted to confirm the assignment.
12. Press **Yes** to assign the selected Speed Dial number. The **Edit Contact** screen appears in the display.
13. Press to save the new Speed Dial number assignment.

Add a Number or Email Address to an Existing Entry

1. Find the desired entry in the Contacts list. (For more information, refer to *"Finding a Contacts Entry"* on page 34.)
2. Press **Edit**. The **Edit Contact** screen appears in the display with the contact name highlighted.
3. Highlight a number field or the **Email** field in this Contacts entry.
4. Enter the phone number or Email address for the new Contacts entry.
5. Press to add the number or Email address to the existing entry.

Edit an Existing Email Address

1. Find the desired entry in the **Contacts** list. (For more information, refer to *"Finding a Contacts Entry"* on page 34.)
2. Press **Edit**. The **Edit Contact** screen appears in the display with the contact name highlighted.
3. Highlight the **Email** or **Email 2** field (labeled with the @ symbol).
4. Use the keypad to edit the Email address. (For more information, refer to *"Entering Text"* on page 42.)
   - To insert the @ symbol, do the following:
     - Press the Left soft key, then select **Symbols → @**.
     - Enter the remainder of the Email address using the keypad. (For more information, refer to *"Entering Text"* on page 42.)
   - To add the domain type to the end of the Email address, do the following:
     - Press the Left soft key, then select **Shortcuts**.
     - Select the desired domain type (such as, .com, .net, or .edu) to add to the Email address.
5. Press to save your changes.

Speed Dial Numbers

You can assign and change Speed Dial numbers for Contacts entries.

1. In Standby mode, press **Menu** (●) and select **Contacts** → **Speed Dial**. The **Speed Dial** list appears in the display.

Tip: You can also assign a Speed Dial number when creating or editing a Contacts entry. For more information, refer to *"Assigning Speed Dial Numbers"* on page 38

2. Highlight a Speed Dial number.
3. Press **SET** (●). The **Set Speed Dial** screen appears in the display.
4. Enter or highlight a Contact entry, then press ●. You are prompted to confirm the new Speed Dial setting.
5. To save the new setting, press **Yes**. To discard the new setting, press **No**.

Renaming a Contacts Group

Use this option to rename a Group in your Contacts list.

1. In Standby mode, press **Menu** (●) and select **Contacts** → **Group**. A list of Group names (like the following list) appears in the display:
   - **General**
   - **Family**
   - **Friends**
   - **Colleagues**
   - **Business**
2. Highlight the Group (other than **General**) that you wish to rename, then press **Options** and select **Rename**.
3. The **Rename Group** screen appears in the display. The current name of the selected Group shows with a flashing cursor at the end of the name.
4. Enter a new Group name using the keypad. (For more information, refer to *"Entering Text"* on page 42.)
5. Press ● to save the changed group name.

Deleting a Contacts Entry

1. Find and highlight the desired entry in the Contacts list. (For more information, refer to *"Finding a Contacts Entry"* on page 34.)
2. Press **Options** and select **Erase**. The phone prompts you to confirm the erasure.
3. To erase the selected Contact entry, press **Yes**. To keep the selected Contact entry, press **No**.

Sending a Contacts Entry

Use the Send Name Card Via Bluetooth option to send one or more selected Contacts entries to another, compatible phone or other device over a Bluetooth connection.

1. Find and highlight the desired entry in the Contacts list. (For more information, refer to *"Finding a Contacts Entry"* on page 34.)

2. Press **Options**, then select **Send Name Card Via Bluetooth**. The **Send Via Bluetooth** screen appears in the display with the highlighted Contacts entry marked.
3. Highlight another Contacts entry you wish to send and press **MARK** (●) to mark the entry for sending. Repeat this step for all other Contacts entries you wish to send.
4. When you have marked all the entries you wish to send, press **Done**. The Choose device screen appears in the display.
5. Use the Up and Down navigation keys to highlight the name of the receiving device, then press ●. Your phone automatically connects with the other device and sends the selected Contact entries.

Note: For information on turning off the Bluetooth connection, see *"Bluetooth"* on page 79.

Memory Info

Use the Memory sub-menu to view the amount of Contacts entries you have stored, as well as the remaining memory.

- ▶ In Standby mode, press **Menu** (●) and select **Contacts** → **Memory Info**. The amounts of memory used and remaining for Contacts entries appear in the display.

This section outlines how to select the desired text entry mode when entering characters using the phone keypad or the nested, QWERTY keyboard-style keypad. This section also describes how to use the T9 predictive text entry system to reduce the number of key strokes needed to enter text.

Built-in QWERTY Keypad

Your U450 has a built-in, keyboard-style keypad, commonly called QWERTY, that you can access by sliding it open from beneath the top section of the phone. This also automatically rotates the image in the display to show information in a wider, landscape format. Using the QWERTY keypad, you can type letters, numbers, punctuation, and other special characters into text entry fields or other applications simpler and faster than using the telephone keypad.

Changing the Text Entry Mode

Text messages can be made up of alphabetical characters, numbers, and symbols. You can use the following text entry modes to simplify text entry:

- **T9 Word** — Press each phone key only once to enter the letter of the word that you're spelling. T9 WORD mode letter options are:
  - **T9 Word** — Enter initial capital letters
  - **T9 WORD** — Enter all upper case letters
  - **T9 word** — Enter all lower case letters
- **Abc** — Enter letters, numbers, and symbols by using the QWERTY keypad or by repeatedly pressing each phone key until the desired character (as shown on the key) appears in the display. ABC mode letter options are:
  - **Abc** — Enter initial capital letters
  - **ABC** — Enter all upper case letters
  - **abc** — Enter all lower case letters
- **123** — Enter numbers by pressing the corresponding keys on the phone keypad or the QWERTY keypad.

Tip: Using the QWERTY keypad, also use **123** mode to enter symbols into your message simply by pressing the keys labeled with the symbols you want.

- **Symbols** — Using the phone keypad, enter a symbol into your message by pressing the number above the symbol in the **SYMBOLS** pop-up window.

The current text entry mode (**T9 Word**, **Abc**, **ABC**, **123**, or **Symbols**) is indicated in the lower part of a text entry screen. To change the text entry mode, do the following:

1. While composing a text message, press the Left soft key. The following options appear in the display:
   - **T9Word**
   - **Abc**
   - **ABC**
   - **123**
   - **Symbols**
2. Select the desired text entry mode.

Using T9® Mode

T9 Word recognizes commonly used words for the numeric or alphabetic (QWERTY) sequence of key presses and inserts the word into your message.

When used with the phone keypad, T9 Word is much faster than the traditional method of text entry (**Abc**) since it *requires only one key press per letter* of the word that you're spelling.

▶ While composing a text message, press the Left soft key. Use the Up and Down navigation keys to highlight **T9Word**, then press ●.

- For practice, enter the word "Samsung" by pressing each of the following keys *only once*:

S A M S U N G

T9 Word recognizes that the most commonly used word(s) for the numeric sequence you just entered is "Samsung." If more than one word shares the same numeric sequence, T9 Word provides the most commonly used word(s). Alternate words, if available, pop-up in the display. Select the desired word in the pop-up list.

Note: To enter a space, press # . To enter a period, press 1 . These key functions apply to both **T9 Word** and **Abc** modes. For other symbols, see *"Entering Symbols"* on page 44.

When used with the QWERTY keypad, T9 Word provides a "look ahead" function, listing likely words for the letters you enter.

Example: When you enter W A R R, two of the options that pop-up are "Warrior" and "Warrants".

Using Abc Mode

1. While composing a text message, press the Left soft key, then select **Abc**.
2. Enter characters while in Abc mode by using one of following keypads:
   - Using the QWERTY keypad, press the key labeled with the desired character (such as, press 6 for "G" and H for "H").
   - Using the phone keypad:
     – Press the key repeatedly until the desired character appears in the display (such as, press 4 ghi once for "G" and twice for "H").
     – Pause briefly and the displayed character is accepted and inserted into your message.
     – Press # to enter a space and press 1 @ ± to enter a period.

Entering Numbers

Enter numbers into a text message using the phone keypad while in **123** mode.

Note: When using the QWERTY keypad, you enter numbers in **abc** / **Abc** / **ABC** mode by pressing the keys labeled with the corresponding numbers that you wish to insert into your message.

1. While composing a text message, press the Left soft key, then select **123**.
2. Enter numbers while in **123** mode by pressing the key labeled with the corresponding number that you wish to insert into your message.

Entering Symbols

Enter symbols such as "@" or "%" into a text message.

▶ While composing a text message, enter symbols by using one of following keypads:

- Using the QWERTY keypad:
  – Press Fn to switch from **abc** / **Abc** / **ABC** to **Sym** / **SYM**. (Press Fn once for **Sym** and twice for **SYM**.)
  – Press the key(s) labeled with the corresponding symbol(s) that you wish to insert into your message.
  – To return to **Abc** mode, press Fn again.
- Using the phone keypad:
  – Press the Left soft key, then select **Symbols**. The first of three symbol screens appear in the display.
  – Use the Left and Right soft keys to page through the other symbols, if desired.
  – Press the key that corresponds with the symbol that you wish to enter. For example, press 4 ghi for an exclamation point (!).
  – Repeat these steps to insert additional symbols into your message.

This section explains how to create, send, receive, and view different types of messages. This section also describes the features and functionality associated with messaging.

Creating and Sending New Messages

This section guides you through procedures for creating and sending text, picture, and postcards.

Creating and Sending a Text Message

1. In Standby mode, press **Message**, then select **Create Message** → **Text Message**. The **Create Txt Msg** screen appears in the display showing the **To** list.

Tip: You can also access Messages by pressing **Menu** (●) and select **Messages**.

2. Address your message by selecting contacts and/or entering number(s) or Email address(es) of message recipient(s):
   - To select a mobile number or Email address using your Contacts list, press **Add**. The following options appear in the display:
     - **Contacts**
     - **Groups**
     - **Recent Calls**

     Select **Contacts**. The **Add Contacts** screen appears in the display. For more information, refer to *"Finding a Contacts Entry"* on page 34.

     Highlight a Contact. Use the Left and Right navigation keys to highlight a phone Number or Email address for the highlighted Contact. Press **MARK** (●) to mark your selection.

     To add the selected contacts to the **To** list, press **Done**. The **Create Txt Msg** screen appears in the display showing the populated **To** list.
   - To enter recipient Email address(es), press and hold ✱+ to change the text entry mode from **123** to **T9 word** or **abc**. (For more information, refer to *"Add a Number or Email Address to an Existing Entry"* on page 39.)
3. When you are finished addressing your message, press **OK** (●). The **Text** field appears in the display.
4. Enter the text for your message using the keypad. (For more information, refer to *"Entering Text"* on page 42.)
5. At any point while composing a message, you can set message send options by pressing **Options**. (For more information, refer to *"Message Send Options"* on page 48.)
6. Once you're finished composing your message, press **SEND** (●) to send your message.

Creating and Sending a Picture Message

1. In Standby mode, press **Message**, then select **Create Message** → **Picture Message**. The **Create Pic Msg** screen appears in the display showing the **To** list.

Tip: You can also access Messages by pressing **Menu** (●) and select **Messages**.

2. Address your message by selecting contacts and/or entering number(s) or Email address(es) of message recipient(s). (For more information, refer to *"Creating and Sending a Text Message"* on page 45. See Step 2.)
3. After addressing your picture message, the **Subject** field becomes highlighted.
4. If desired, enter the Subject text using the keypad. (For more information, refer to *"Entering Text"* on page 42.)
5. Press the Down navigation key. The **Text** field becomes highlighted.
6. Enter the message text using the keypad. (For more information, refer to *"Entering Text"* on page 42.)
7. To set message send options, press the **Options**. (For more information, refer to *"Send Picture Messages in Camera Mode"* on page 47.)
8. To add a picture to the message, highlight the **PIC:** field.
   - Press **Picture** to access the picture gallery. If there are no pictures in the gallery, press **Camera** to launch the camera, then take a picture. With pictures in the gallery, thumbnail images appear in the display. Then, do the following:
     - Highlight a picture in the gallery.
     - To expand the highlighted picture to fill the display, Press **View**.
     - To activate the phone's camera and take a new picture, Press **Camera**. (For more information, refer to *"Camera"* on page 59.)
9. Select a photo. The **Create Pic Msg** screen appears in the display with the selected photo in the **Picture** field.

   The **Sound** field becomes highlighted.
10. To add a sound file to your message, press **Sounds**. The **Record New** option and a list of sound files appear in the display with the **Record New** option highlighted.
11. Record a new sound file or select a listed sound file.
    - If you select the **Record New** option, the **Record New** screen appears in the display. Press **REC** (●) to begin recording.
    - Wait for the beep, then start speaking. As it is recording the phone displays a countdown timer that shows the seconds remaining for the recording.
      - To pause the recording, press **Pause**. When a memo is paused, press **Resume** to continue recording.
      - To stop recording, press **SAVE** (●). The **Record New** option and a list of sound files appear in the display with the **Record New** option highlighted.

- Select your new sound file. The **Create Pic Msg** screen reappears in the display with your selected sound file in the **Sound** field.

12. Once you're finished composing your picture message, do one of the following:
    - Press **SEND** ( ) to send the message.
    - Press **Options**. For more information, refer to *"Send Picture Messages in Camera Mode"* on page 47.

Send Picture Messages in Camera Mode

Picture messages can be sent to recipients with compatible phones or devices. You can even accompany a Picture message with a voice memo or preloaded sound.

Tip: You can send a Picture message to up to ten recipients. Enter each recipient's address or phone number in a separate **To** field of the Picture message composer.

1. In Standby mode, press and hold the Camera key ( ).
2. Select Option 1 - **Take Photo**. The camera viewfinder screen appears in the display.
3. Ensure the Auto Save camera setting is set to **Off**.
4. Using the display as a viewfinder, when the image that you wish to send appears in the display, press **TAKE** ( ) to take a picture.

Note: For more information about using the camera feature in your phone, see *"Camera"* on page 59.

5. Press **Send** ( ) to save the picture and begin delivery process. You are prompted to send a copy of the picture to AltellMyPics.net. The following options appear in the display:
    - **Yes**
    - **No**
6. Select the desired option. The **Create Pic Msg** screen then appears in the display with the **To:** list showing.

Note: If you select the **Yes** option, "**Online Album**" appears as the first addressee in the **To:** list.

7. Enter the phone number or Email address of the recipient of the Picture message, then press .

Tip: Press **Add** to display a pop-up menu containing: **Contacts**, **Groups**, **Recent Calls and Online Album**. These options allow you to find and add recipients to the **To:** list.

8. The **Subject:** field appears in the display. Enter a subject for the Picture message using the keypad. (For more information, refer to *"Entering Text"* on page 42.)

9. Press the Down navigation key until the **Text:** field is highlighted, then enter the message text using the keypad. (For more information, refer to *"Entering Text"* on page 42.)
10. Your new picture appears in the **PIC:** field.
11. If you wish to insert a sound into your Picture message, use the Down navigation key to highlight the **Sound:** field and do the following; otherwise, proceed to step 10.
    - Press **Sounds**. The **My Sounds** screen appears in the display showing the following options:
      - **Record New** — Record a new memo to insert into the message.

Note: You can record and insert a voice memo of up to 60 seconds in length, if you record first before attaching a picture. If a picture is attached before recording, the size of the voice memo is limited to the amount of remaining memory.

      - **Audio files list** — Select from the list of previously recorded voice memos and preloaded audio files on your phone.

    Select the desired option to insert a sound into your message.
12. Press **Options** to complete the message text and set message send options. The following options appear in the display:
    - **Preview** — View the picture as the recipient will see it.
    - **Save As Draft** — Save the message to your Draft folder.
    - **Priority Level** — Choose **High**, **Normal**, or **Low**.
    - **Validity Period** — Enter the **Date** when this message will cease to be valid, then use the Left and Right navigation keys to choose the **Time**.
    - **Deferred Delivery** — Select the **Date** and **Time** to deliver the message.
    - **Delivery Ack** — Choose **On** or **Off** — Requests confirmation when your message is received.
    - **Remove Pic** — Remove the picture from your message.
    - **Remove Sound** — Remove the sound file from your message.
    - **Add To Contacts** — Save the recipient's number or Email address as a Contacts list entry.
13. Highlight an option, then press ● to invoke it.
14. Press ● to send the message. "**Connecting...**" followed by "**Sending Message**" appear in the display and a progress bar indicates the send status.

Message Send Options

You can set priority, validity, and other options before you send a message. Which options appear in the Send Options list depends on what type of message you have composed and what message field you have highlighted.

1. After you've composed a Text or Picture message, press **Options**. The following are Send Options that can appear in the display:

- **Edit Send To** — Lets you add, delete, or change numbers or Email addresses in a Text message **To:** list.
- **Preview** — Lets you view a Picture message as the recipient will see it.
- **Add Quick Text** — Lets you add **Quick Text** to a message.
- **Save As Draft** — Saves this message in the Drafts folder.
- **Priority Level** — Lets you assign a **High**, **Normal**, or **Low** (picture messages only) priority to the message.
- **Validity Period** — Lets you set a **Date** and **Time** when this message will no longer be available to the recipient. After the set period of time, your message is recalled.
- **Deferred Delivery** — Lets you set a **Date** and **Time** when this message will be delivered.
- **Enh. Delivery Ack / Delivery Ack** — Set to **On** to be alerted when your message is received by the addressee.
- **Remove Pic** — Removes the picture from a Picture message.
- **Remove Sound** — Removes the sound file from a Picture message.
- **Add To Contacts** — Lets you add the addressee numbers or Email addresses to your Contacts list.

2. Select a desired option and a value for that option. You're returned to the Create Msg screen.

Receiving New Messages

When you receive a message in Standby mode, one of the following occurs:

- **If Message View is set to Chat** — The message automatically appears in the display and is followed by other messages received from this particular number. (For more information, refer to *"Text Message Settings"* on page 55.)
- **If Auto View and Auto Scroll are both set to On** — An alert sounds (unless turned off) and the message text automatically appears in the display and scrolls slowly to the end of the message. (For more information, refer to *"Text Message Settings"* on page 55.)
- **If Auto View is set to Off** — An alert sounds (unless turned off) and a **New Message** notification appears in the display along with the closed envelope icon ( ). The date and time of the message and the following options also appear in the display:
  - **View Now** — Opens the message where you have the option to Erase, Reply, Forward, Reply With Copy, Save Quick Text, Go To URL, Lock/Unlock, Add To Contacts, Callback, or Message Info.
  - **View Later** — Closes the popup and saves the message to your inbox where you can view it later.

  Select the desired option.

Receive Messages While in a Call

When you receive a message while in a call, one of the following occurs:

- **If Auto View and Auto Scroll are both set to On** — The message text automatically appears in the display and scrolls slowly to the end of the message. (For more information, refer to *"Text Message Settings"* on page 55.)
- A **New Message** notification appears in the display along with the closed envelope icon ( ). The date and time of the message and the following options also appear in the display:
  - **View Now** — Opens the message where you have the option to Erase, Reply, Forward, Reply With Copy, Save Quick Text, Go To URL, Lock/Unlock, Add To Contacts, Callback, or Message Info.
  - **View Later** — Closes the popup and saves the message to your inbox where you can view it later.

Select the desired option.

Voicemail

Voicemail allows callers to leave voice messages in your voice mailbox, and lets you review, play, and delete your voice messages any time you are in your Carrier's network coverage area.

Voice Mail Setup

Before callers can leave voice mail messages, you must first set up your account. For more information, refer to *"Setting Up Your Voicemail"* on page 7 and to *"General Message Settings"* on page 54.

Checking your Voicemail

1. In Standby mode, press and hold 1@ until you're connected to your Wireless Carrier's voicemail system. A recorded message prompts you for a password.
2. Enter your password, then follow the recorded prompts, to listen to your voice message(s), change administrative options, and so on.

Tip: You can also access your voice mail by selecting an entry in the Voicemail folder.

Message Folders

Inbox

Received messages of all types (except Voicemail) are stored in the Inbox.

1. In Standby mode, press **Message**, then select **Inbox**, to open the Inbox folder.
2. Highlight a message, then do one of the following:
   - To delete the message, press **Erase**.
   - To view the highlighted message, press **OPEN** ( ) then proceed to Step 3.
   - To access other options, press **Options**. The following options appear in the display:
     - **Reply** — Lets you compose and send a message to the sender.

– **Reply With Copy** — Text Message only — Lets you reply to a message and include a copy of the original message.

– **Forward** — Lets you forward the message to other Email addresses or mobile phone numbers.

– **Lock** / **Unlock** — Blocks or allows erasure of the selected message.

– **Add To Contacts** — Lets you add the addressee numbers or Email addresses to your Contacts list.

– **Erase Multiple** — Deletes selected/all unlocked messages from the Inbox folder.

– **Message Info** — Lets you display status information about a message.

Select an option to perform the function for that option.

- To return to the **Messages** menu, press C.

3. While viewing a selected message, do one of the following:

- To delete the message, press **Erase**.
- To compose and send a message to the sender of the highlighted message, press **REPLY** (●).
- Press **Options**, The following options appear in the display:

– **Go To URL** — Lets you browse any Internet address included in the message.

– **Play Again** — Picture Messages only — Replay a sound file included with a message.

– **Forward** — Lets you forward the message to other Email addresses or mobile phone numbers.

– **Reply With Copy** — Text Message only — Lets you reply to a message and include a copy of the original message.

– **Save Pic** — Picture Messages only — Saves a copy of the image included in the selected message to the images Gallery.

– **Save Sound** — Picture Messages only — Saves the sound file in the message to the My Sounds gallery.

– **Save Quick Text** — Saves the message text as a Quick Text entry.

– **Lock** / **Unlock** — Block or allow changes to the selected message.

– **Add To Contacts** — Lets you add the addressee numbers or Email addresses to your Contacts list.

– **Callback** — Lets you call the originator of the message.

– **Message Info** — Lets you display status information about a message.

Select an option to perform the function for that option.

- To return to the **Inbox** list, press C.

Messages and Lock Mode

Your phone can still receive messages while in Lock Mode. The time and date of the message appear in the display, but you cannot access the message until you enter the lock code. (For more information, refer to *"Lock Phone"* on page 98.)

Outbox

Your phone stores outgoing messages in the Outbox, regardless of whether the message was successfully sent to, or received by, the addressee.

Tip: Verify whether and when a message or Email was successfully received by enabling the **Delivery Ack** message send option. (For more information, refer to *"Send Picture Messages in Camera Mode"* on page 47.)

1. In Standby mode, press **Message**, then select **Outbox**. A list of your outgoing messages appears in the display.
2. Highlight a message, then do one of the following:
   - To delete the message, press **Erase**.
   - To view the highlighted message, press **OPEN** (●) then proceed to Step 3.
   - Press **Options**. The following options appear in the display:
     - **Forward** — Send the message to another addressee.
     - **Resend** — Re-send the message.
     - **Lock** / **Unlock** — Block a message from being erased or free a message to be erased.
     - **Add To Contacts** — Lets you add the addressee numbers or Email addresses to your Contacts list.
     - **Erase Multiple** — Erase all messages in the Outbox folder.
     - **Message Info** — Lets you display status information about messages.

     Select an option to perform the function for that option.
   - To return to the **Messages** menu, press ⊂.
3. While viewing a selected message, do one of the following:
   - To delete the message, press **Erase**.
   - To resend a message to the original addressee, press **RESEND** (●).
   - Press **Options**. The following options appear in the display:
     - **Go To URL** — Go to a URL included in this message.
     - **Play Again** — Picture Messages only — Replay a sound file included with a message.
     - **Forward** — Send the message to another addressee.
     - **Erase** — Picture Messages only — Delete the message from the Outbox folder.
     - **Lock** / **Unlock** — Block a message from being erased or free a message to be erased.
     - **Save Quick Text** — Save the message text in the Quick Text folder.
     - **Add To Contacts** — Lets you add the addressee numbers or Email addresses to your Contacts list.
     - **Callback** — Lets you call the recipient of the message.
     - **Message Info** — Lets you display status information about messages.

     Select an option to perform the function for that option.
   - To return to the **Outbox** list, press ⊂.

Drafts Folder

Messages in the Drafts folder are those that have been composed but never sent. You can return to the Drafts folder at any time to view, edit, or send a draft message.

1. In Standby mode, press **Message**, then select **Drafts**. A list of your draft messages appears in the display.

2. Use the navigation keys to highlight the message that you wish to edit, then do one of the following:
   - To delete the message, press **Erase**.
   - To view the highlighted message, press **EDIT** (●) then proceed to one of the following screens:
     - **Text Message** — **Create Txt Msg** screen showing the **To** field appears in the display.
     - **Picture Message** — **Create Pic Msg** screen showing the **To** list appears in the display. Change or add numbers and addresses, then press ●.
   - Proceed to Step 3.
   - Press **Options**. The following options appear in the display:
     - **Send** — Send the message to the current addressee(s).
     - **Lock** / **Unlock** — Block a message from being erased or free a message to be erased.
     - **Add To Contacts** — Lets you add the addressee numbers or Email addresses to your Contacts list.
     - **Save Quick Text** — Save the message text in the Quick Text folder.
     - **Erase Multiple** — Erase all messages in the Drafts folder.

     Select an option to perform the function for that option.
   - To return to the **Messages** menu, press C.
3. If you press **EDIT** (●) in the **Text** screen/field, do one of the following:
   - To change text options, press the Left soft key. (For more information, refer to *"Entering Text"* on page 42.)
   - To send the message, press **SEND** (●).
   - Press the **Options** soft key. (For more information, refer to *"Message Send Options"* on page 48.)
4. Once you're finished composing your message, do one of the following:
   - To send the message, press **SEND** (●).
   - To exit the message, press 3. You are prompted to save your changed message to the Drafts folder.

Voicemail

New voice messages in your voice mailbox are logged in the Voicemail folder of the Messages menu. Open the Voicemail folder to view the Callback # (if available), Urgency, and other details of new voicemail messages.

1. In Standby mode, press **Message**, then select **Voicemail**. A Voicemail status screen indicating the number of new messages in your voice mailbox, their urgency, and any callback numbers appears in the display.
2. Press 1 to call your voice mailbox and listen to your voice messages.

Note: You can, in Standby mode, also press and hold 1 to dial your voice mailbox.

Email

You can use your phone to access your personal or business Email account(s).

1. In Standby mode, press **MENU** (●), then select **Email**.
2. Follow the prompts that appear in the display to setup your phone to access an Email account.

Erasing Messages

You can erase all of the messages in each/all of your message folders from one convenient location.

Note: This function erases all messages in a selected message folder or in all message folders. To delete a single message, from the Messages menu, open the message folder where the message to be deleted is stored, then select and delete the message from the Option menu while viewing the message content.

1. In Standby mode, press **Message**, then select **Erase Messages**. The following options appear in the display:
   - **Inbox** — Lets you delete all messages from your Inbox.
   - **Outbox** — Lets you delete all messages from your Outbox.
   - **Drafts** — Lets you delete all draft messages from the Drafts folder.
   - **All Messages** — Lets you delete all messages from all message folders.
   - **Email** — Lets you delete all messages from your Email folder.
2. Select the folder containing the messages that you wish to delete. You are prompted to confirm the erasure of all messages in that folder.
3. To cancel deleting any messages, press **No**. To delete all messages from the selected folder, press **Yes**.

Message Settings

The Msg Settings options let you define numerous message settings such as ringer types and save options.

1. In Standby mode, press **Message**, then select **Msg Settings**. The following options appear in the display:
   - **General** — Lets you set default option values for Text, Picture, and Voice messages.
   - **Text Message** — Lets you set default message text option values for both Text and Pic messages.
   - **Picture Message** — Lets you set default picture message option values.
2. Select the desired option to perform the function(s) for that option.

General Message Settings

1. In Standby mode, press **Message**, then select **Msg Settings** → **General**. The following options appear in the display:
   - **Auto Save** — Lets you set whether to automatically save to the Outbox folder, to discard, or to prompt you to save unsent messages when you exit them.

- **Auto Erase** — Automatically erase the oldest read message after memory is full.
- **Quick Text** — Lets you change pre-composed text or compose text for addition to your outgoing messages.
- **Voicemail #** — Lets you update your Voicemail access number.
- **Entry Mode** — Lets you set the default text entry mode [T9 Word, Abc/ABC (alphabetically), or 123 (numerical)] for composing message text.
- **Callback #** — Lets you disable, enable, and update the callback number that can be inserted in outgoing messages.
- **Signature** — Lets you disable, enable, and update the text signature that can be inserted in outgoing messages.
- **Reminder** — Lets you set the message receipt reminder to play **Once**, **Every 2 Minutes**, **Every 15 Minutes**, or not to play (**Off**).

2. Select the desired sub-menu to enter the sub-menu and change the selected message settings.

Text Message Settings

1. In Standby mode, press **Message**, then select **Msg Settings** → **Text Message**. The following options appear in the display:
   - **Auto View** — Automatically view messages as they are received.
   - **Auto Scroll** — When set to **On**, the phone automatically scrolls message text, letting you see the complete message text without using the navigation keys.
   - **Message View** — When set to **Chat**, all successive text messages to or from a particular number, are displayed within a message.
2. Select the desired sub-menu to enter the sub-menu and change the selected message settings.

Picture Message Settings

1. In Standby mode, press **Message**, then select **Msg Settings** → **Picture Message**. The following option appears in the display:
   - **Auto Receive** — Lets you choose whether to be prompted to retrieve picture messages from your provider's Email server or to automatically retrieve all picture messages as they are received by the server.
2. Select **Auto Receive** to enter the sub-menu and change the selected message setting.

Section 8: Alltel Shop

This section explains the Alltel Shop features where users can download multimedia, applications, games, and check news and sports.

Finding Applications

With Alltel Shop, you can download full featured applications over the air including games, personalized ring tones, pictures, and more.

- In Standby mode, to launch Alltel Shop press **Menu** (●), then select **Alltel Shop**.

Note: The first time you launch Alltel Shop, the warning message "**Browse & Download use airtime**." pops up in your display. To have this message repeat the next time you launch Alltel Shop, press **Continue**. To stop this message repeating, press **Remove**.

The Alltel Shop screen appears in the display with the **MobileShop** icon highlighted. You have the following options:

- Select the **MobileShop** icon. The **MobileShop** menu appears in the display. You can view the Catalog, Search for an application, or get instructions on downloading applications.
- Select an application on your phone that you wish to launch.

This section outlines how to launch Alltel Web, how to navigate to other pages on the web, and how the keys on the keypad are used with the web application. Additionally, links to other sites are briefly discussed.

Alltel Web

With Alltel Web, you can conveniently surf the web and download ringtones and wallpapers using your phone. Each time you launch Alltel Web, your phone connects to the Internet and the service indicator icon with a red arrow ( ) appears in the display.

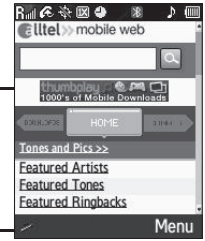
Stored Web Content

Alltel Web ends an Internet connection after a certain period of inactivity; however, some information from your session remains stored in the phone (while your phone is on). You can access this information without reconnecting to the Internet. However, if you are viewing stored information, and you select a link to a site that was not accessed in your last session, you automatically re-connect to the Internet.

Launching Alltel Web

1. In Standby mode, do one of the following to launch **Alltel Web**:
   - Press the **Up** navigation key.
   - Press **Menu** ( ), then select **Alltel Web**.

Note: The first time you launch Alltel Web, the warning message "**Browse & Download use airtime.**" pops up in your display. To have this message repeat the next time you launch Alltel Web, press **Continue**. To stop this message repeating, press **Remove**.



A list of categories (each representing one or more web sites) appears in the display.

2. Highlighted the desired category, then press the soft key to enter the category list.

Exit Alltel Web

▶ To exit **Alltel Web**, press .

Using Alltel Web

When you use Alltel Web, some of the keys operate differently than during a normal phone call. Alltel Web presents on-screen items in any of the following ways:

- Text or numeric input.
- Links (embedded in content).

- Numbered options (some may not be numbered).
- Simple text.

You can act upon options or links by using the soft keys.

Alltel Web Soft Keys

The bottom of the Alltel Web display is a bar that contains browser commands. The **Left** and **Right** soft keys ( ) on the keypad are used to execute the command that appears above them in the display. These are called "soft keys" because their function changes depending on the application.

Using Links

Links have several purposes, such as jumping to a different page, to a different site, or even initiating a phone call. Links are shown inside of brackets ([ ]). You can normally press to select a link when it is highlighted.

How Alltel Web Keys Work

The following table lists Alltel Web keys and their functions.

Navigation keys — Use to browse lists and options.

BACK Key — A browse, back-up key. Press once to back up one page. Press and hold to go back to home page.

Press to clear the last number, letter, or symbol entered. Press and hold to completely clear the display.

Shift Key — Press before entering text to enable uppercase characters.

Space Key — Press to insert a space when entering text.

Number 1 thru 9 — Use the number keys to select items in a menu if they are numbered.

End Key — Press to exit the Alltel Web and return the phone to Standby mode.

Left Soft Key — Press to activate the command that appears above it in the display.

Right Soft Key — Press to activate the command that appears above it in the display.

Use your U450 phone to take full color digital pictures, display them on your phone's vivid color display, and instantly share them with family and friends. It's fun, and as easy to use as a traditional point-and-click camera. This section explains how you can do the following:

- Take pictures with your phone's built-in digital camera.
- Send your pictures to others in Picture messages.
- Set the several options associated with the camera that help you take crisp, clear pictures.

Taking Pictures

Taking pictures with the built-in camera is as simple as launching the camera, choosing a subject, pointing the lens (located on the back of your phone), and pressing a button.

Taking Snap Shots (Single Pictures)

To take a single picture using the current camera settings, do the following:

1. In Standby mode, press and hold the Camera key ( ) on the right side of the phone.
2. The following options appear:
   - **Take Photo** — allows you to take a picture.
   - **My Images** — allows you to view your pictures in the My Images folder.
3. Select the **Take Photo** option and press .

Note: You can also activate the camera by pressing **Menu** ( ), then selecting **Multimedia** ➔ **Camera**.

4. Using the display as a viewfinder, point the camera lens (on the back of your phone) at your subject.
5. When the image that you wish to capture appears in the display, press **TAKE** ( ).
6. To save the picture to memory, press **Save**.

   To erase the photo, press **Erase**.

Tip: You can change a number of the camera's settings to suit particular uses for your pictures. See *"Camera Options"* on page 60 for more information.

Camera Screen Layout

When you activate your phone's camera, the top two lines of the display are reserved for camera icons (when active). The center of the display shows a viewfinder image of the subject at which the camera is pointed.

Camera Screen Soft Keys

The soft key labels on the bottom line of the display change to the following:

- **Gallery** — Pressing the Left soft key opens the **My Images** multimedia folder so you can view or manage your stored pictures.
- **TAKE** — Pressing ● takes a picture of the subject currently appearing in the camera view finder screen.
- **Options** — Pressing the Right soft key opens a menu bar of camera options and settings.

Picture Options

After you take a picture, the following options are available (if **Auto Save** is set to **Off**, see *"Auto Save"* on page 63)

- **Save the picture** by pressing **Save**.

  Pictures are stored in the **My Images** folder, which is part of the phone's memory and/or card memory devoted to storing, browsing, and viewing saved pictures.
- **Send the picture** to someone else by pressing **Send** (●).
- **Discard the picture** by pressing **Erase**.

If **Auto Save** is set to **On**, these options are not available. After pressing **TAKE** (●), the picture(s) is (are) automatically saved, and you are returned to the camera screen.

Camera Options

The Camera Options let you temporarily adjust default camera settings to suit available lighting, the subject of the photo, or the purpose of the photo, for the current camera session. When you exit the camera, your Camera Options values revert to their default values.

To access Camera Options, do the following:

1. In camera mode, press **Options**. The Camera Options menu appears in the display, containing sub-menus.
2. Select a sub-menu, then select a preferred value.

The following sub-sections describe camera options and available values.

Shot Type

Shot Type lets you take multiple photos or shots in succession at the touch of a key and/or add colorful frames to your photos.

1. In camera mode, press ☰, then highlight the **Shot Type** icon (▢ / ▣ / ▦). The following values appear in the camera screen:
   - **Single Shot** — Lets you take 1 photo at a time.
   - **Series Shot** — Lets you take a series of 6 photos.
   - **Mosaic Shot** — Lets you take mosaic photos of multiple shots.
2. Select the desired Shot Type.

Resolution

Resolution lets you change the clarity (in pixels) and size (in bytes) of your pictures.

1. In camera mode, press , then highlight the Resolution setting. The following values appear in the camera screen:
   - **1280 X 960** (pixels)
   - **640 X 480** (pixels)
   - **320 X 240** (pixels)
   - **176 X 144** (pixels)
2. Select the desired Resolution value.

Note: The Resolution setting affects zoom capabilities. When Resolution is set to **1280 X 960**, zoom is not available. When Resolution is set to any value lower than **1280 X 960**, zoom settings **1** – **8** are available. Adjust the zoom by using the **Up** and **Down** Navigation keys.

Night Shot

Night Shot lets you take pictures in low light conditions.

1. In camera mode, press , then highlight or . The following options appear in the display:
   - **Off**
   - **On**
2. Select the Night Shot setting of your choice.

Self Timer

Self Timer lets you delay taking a picture long enough to let you join others in a picture.

1. In camera mode, press , then highlight .

   The following values appear in the camera screen:
   - **Off**
   - **2 Sec.**
   - **5 Sec.**
   - **10 Sec.**
2. Select a Self Timer value.

Note: If you select **2 Sec.**, **5 sec.**, or **10 sec.**, a Self Timer icon (such as,) appears in the camera screen in the display.

The next time you press , the countdown Self Timer indicates the time remaining before the camera takes the picture. The phone reads the countdown timer value to you beginning with two or three and continuing to zero, when the picture is taken.

Tip: To stop the countdown timer without resetting it, press **C**.

Quality

You can affect how much your photo is compressed, thereby reducing it's overall size (not to be confused with resolution).

1. In camera mode, press **Options**, then highlight the current Quality indicator (**SF**, **F**, **N**). The following values appear in the camera screen: **SuperFine**, **Fine**, and **Normal**.
2. Select the desired Quality value.

White Balance

White Balance allows you to adjust picture quality according to available light.

1. In camera mode, press , then highlight AWB / / / / . The following values appear in the camera screen:
   - **Auto** — The camera automatically adjusts picture quality to available light.
   - **Sunny** — Use this setting when taking pictures in full sun.
   - **Cloudy** — Use this setting when taking pictures in cloudy conditions.
   - **Tungsten** — Use this setting when taking pictures under incandescent lights.
   - **Fluorescent** — Use this setting when taking pictures under fluorescent lights.

   Each option, as you highlight it, shows the effects it has on a picture.
2. Select the desired White Balance value. The camera viewfinder screen appears in the display with your selected White Balance value applied.

   The next time you press , the camera applies your selected White Balance value to your picture.

Color Effect

Change the look of your pictures with Color Effect. Choose from five available settings such as Green, Negative, and Sepia. The selected color effect previews in the display before you take the picture.

1. In camera mode, press , then highlight . The following values appear in the display:
   - **Normal** — Subjects and pictures appear with a normal hue.
   - **Black&White** — Subjects and pictures appear in black and white.
   - **Sepia** — Subjects and pictures appear in a brownish-gray hue.
   - **Negative** — Subjects and pictures appear in inverted colors.
   - **Green** — Subjects and pictures appear in a greenish hue.
   - **Aqua** — Subjects and pictures appear in a blue-green hue.

Note: Choose **Normal** to disable Color Effects.

2. Select the Color Effects value of your choice. The camera viewfinder screen appears in the display with your selected Color Effects value applied.

   When you take your next picture, the camera applies your selected Color Effects value to your picture.

Settings

When you change Camera Settings values, your changes are saved for future camera sessions, unlike changes to Camera Options. To restore Camera Settings to their default values, select **Reset Settings**. (For more information, refer to *"Reset Settings"* on page 64.)

Memory

1. In camera mode, press , highlight , then select **Memory**. The following storage options appear in the display:
   - **Phone** — Stores your photos in phone memory.
   - **Card** — Stores your photos on an optional microSD Memory Card.
2. Select the memory location setting of your choice. An icon (or) appears in the lower left corner of the camera screen to indicate where photos will be stored.

Auto Save

1. In camera mode, press , highlight , then select **Auto Save**. The following values appear in the display:
   - **Off**
   - **On**
2. Select the automatic save value of your choice. You're returned to the camera viewfinder screen.

Metering

Metering lets you select the size of the subject cross-section whose average the light level the Camera uses to set picture exposure.

1. In camera mode, press , highlight , then select **Metering**. The following values appear in the display:
   - **Average** — Adjusts exposure to the average light level over a large picture area. (appears in the Camera viewfinder screen.)
   - **Center** — Adjusts exposure to the average light level over a center portion of the subject. (appears in the Camera viewfinder screen.)
   - **Spot** — Adjusts exposure to the light level over a small portion of the subject. (appears in the Camera viewfinder screen.)
2. Select the metering value of your choice. You're returned to the camera viewfinder screen.

Icon Display

1. In camera mode, press , highlight , then select **Icon Display**. The following values appear in the display:
   - **Display All** — Shows camera icons.
   - **Guideline** — Shows a cross hatch pattern in the view finder screen.
   - **No Icons** — Shows a nearly full-display subject image and without icons.

2. Select the viewfinder screen setting of your choice. You're returned to the camera viewfinder screen.

Shutter Sound

Choose from four different sounds whenever you take a picture. Aside from being a cool sound effect, Shutter Sounds acts as an audible reminder that your camera has taken a picture.

1. In camera mode, press , highlight , then select **Shutter Sound**. The following shutter sounds appear in the display:
   - **Off**
   - **Shutter**
   - **OK**
   - **DingDong**
2. Select the shutter sound value of your choice. You're returned to the camera viewfinder screen. The next time you press , you'll hear your selected shutter sound.

AllIeIMyPics Reminder

1. In camera mode, press , highlight , then select **AllIeIMyPics Reminder**. Select **On** or **Off**.

Reset Settings

1. In camera mode, press , highlight , then select **Reset Settings**. You are prompted to confirm reset of all camera settings.
   - Select the **Yes** option to reset the camera settings to default values.
   - Select the **No** option to keep the current camera settings.

Brightness

Brightness lets you temporarily lighten the pictures you take. Increasing the Brightness (-4 – +4) lightens your pictures (0 is normal).

► In camera mode, press the Navigation key **Left** or **Right** to adjust the Brightness (the screen image lightens or darkens to show the affects of your changes).

The next time you press , the camera takes a lighter or darker picture according to your selected Brightness setting.

Section 11: Music Player

This section explains how to use your Music Player to:

- Play individual music files.
- Create, play, and manage Playlists of music files.

This section also explains how to customize your Music Player to suit your music playback preferences.

Finally, this section details how to load music files onto a microSD™ Memory Card.

Using Your Music Player

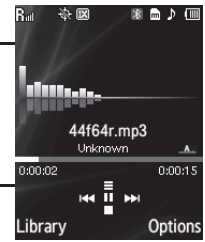
You can use your Music Player to play music files that you have transferred onto an optional microSD™ Memory Card using a personal computer. (For information on loading music files on a Memory Card, see *"Loading Music Files"* on page 67)

Your Freeform Music Player can play music in the following Digital Audio Formats:

- Unprotected AAC and AAC+
- MP3
- WMA and WMA Pro

Your Music Player can play music through the phone's speaker, through stereo headphones, through a stereo headset (such as the optional Samsung AAEP404), or through a stereo Bluetooth headset (such as the optional Samsung SBH700 or SBH500.) (For information on available accessories, contact your Wireless Carrier.)

Launching the Music Player



Note: Before launching the Music Player, you must install a microSD™ Memory Card containing music files in your phone. (For more information, refer to *"Install a Memory Card"* on page 7 and *"Loading Music Files"* on page 67.)

1. In Standby mode, press **Menu** (●), then select **Multimedia** → **Music Player**. The Music Player screen appears in the display.
2. Press **Library**. The Library menu appears in the display.
3. Select the **All** Library sub-menu. A list of music files saved to your Memory Card appears in the display.

Note: For information on selecting and playing music files, refer to *"Using the Music Library"* .

4. Select a music file and press **Play**. The Music Player screen appears in the main display.

Using the Music Library

1. In Standby mode, press **Menu** (●), then select **Multimedia** ➔ **Music Player**. The Music Player screen appears in the display.
2. Press **Library**. The Library menu appears in the display showing the following options:

Tip: You can also access the **Library** menu from the Music Player screen by pressing **Library**.

- **Now Playing** — Music Player mode only — Indicates number of music files currently playing. Select this option (or press **Back**) to return to the Music Player screen.
- **All** — Lists all music files on the Memory Card and lets you play individual music files or play multiple music files by creating a temporary music playlist.
- **Artists** — Lists artist names for music files on the Memory Card and lets you play one or more music files by a selected artist.
- **Albums** — Lists album titles for music files on the Memory Card and lets you play one or more music files from a selected album.
- **Recently Added** — Lists music files recently added to the Library.
- **Playlists** — Lists any playlists you have saved and lets you create, save, and manage playlists.

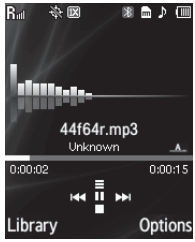
3. Select the preferred Library option. A list of music files, artists, albums, or playlists appears in the display.

   If a list of artists, albums, or playlists is showing, select the preferred artist, album, or playlist. A list of music files appears in the display.
4. Highlight a music file, then:
   - To play the file, press **Play**.
   - To select the file for playing or other options, press **MARK** (●).
   - To select and apply any of the following options to the highlighted or marked music file(s), depending on the displayed music file list, press **Options**:

Note: Not all options listed below will appear. It depends on which option you choose from the Library menu.

   – **Mark All/Unmark All** — Marks or Unmarks all music files.
   – **Erase** — Erases the selected music file from your memory card.
   – **Add to Playlist** — Adds this file to a selected Playlist.
   – **Song Info** — Lists the Title, Artist, Album, Genre, File Name, Encoding Format, Bitrate, Duration, File Size, and Date of the highlighted music file.
5. Select the desired option.

Music Player Controls



- **Volume key**:
  - To play a music file louder, press the Volume key Up.
  - To play a music file softer, press the Volume key Down.
- **Navigation key**:
  - To pause/resume playing a music file, press ●.
  - To display the **Now Playing** list and select another music file to play, press the Navigation key Up.
  - To stop playing a music file, press the Navigation key Down.
  - To skip play to an earlier music file in a Playlist, press the Navigation key Left. If not in a Playlist, rewind to beginning of music file.
  - To skip play to a later music file in a Playlist, press the Navigation key Right. If not in a Playlist, fast-forward to end of music file.
- **Library** soft key — Returns you to the **Library** screen.
- **Options** soft key — Shows the following sub-menus and options:
  - **Play Mode** — Lets you change the play mode from Normal, Shuffle, Repeat One, or Repeat All.
  - **Add to Playlist** — Moves you to the **Playlists** menu to let you add a selected music file to a playlist.
  - **Remove** — Deletes a selected music file from the **Now Playing** list or the current Playlist.
  - **Visual Supplements** — Lets you change the Music Player visualization to Simple View, Equalizer, Lyrics, or Album Art.
  - **Memory Info** — Displays the **Memory Usage** screen which lists Memory Card usage and availability amounts.
  - **Song Info** — Lists the Title, Artist, Album, Genre, File Name, Encoding Format, Bitrate, Duration, File Size, and Date of the selected music file.

  Select the desired option to launch the option or to access the sub-menu.

Loading Music Files

Using an Optional Card Reader

1. Before loading music files on a microSD™ Memory Card, do the following:
   - With your phone powered off, insert the Memory Card into your phone. (For more information, see *"Install a Memory Card"* on page 7.)
   - Power your phone on.
   - When the Memory Card icon ( ) appears in the display, remove the Memory Card from your phone. (For more information, see *"Install a Memory Card"* on page 7.)
2. Insert the Memory Card into a compatible card reader.

Note: Card readers vary. Follow the installation instructions included with your card reader and personal computer.

3. Open the Memory Card reader drive and the “My_Music” folder.
4. Drag or download music (MP3) files into the “My_Music” folder.
5. Remove the Memory Card by following the removal instructions for the Memory Card reader and for your personal computer.
6. Insert the Memory Card into your phone. (For more information, see *“Memory Card (Optional)”* on page 7)

Using an Optional Data Cable

To obtain a USB Data Cable compatible with your Freeform phone, contact your Wireless Carrier.

1. In Standby mode, connect the smaller end of the Data Cable to the Power-Accessory connector on your Freeform phone.
2. Connect the larger (USB) end of the Data Cable to your PC.

   “**Connected To PC**” appears in the display. Your phone appears as a removable disk on your PC.
3. Copy or transfer your music files to the **My Music** folder on your phone.
4. Press **Done** on your phone. You are prompted to confirm that you want to “**Exit USM mode?**”
5. Press **Yes**. Your phone returns to Standby mode.
6. Disconnect the Data Cable.

Playlists

Adding a New Playlist

1. In the Music Player screen, press **Library**, then select **Playlists**. The **Playlists** screen appears in the display.
2. Press **Add**.
3. Enter a name for the playlist and press **OK** (●).
4. Highlight and mark the songs you want to add to the playlist by pressing **MARK** (●).
5. Press **Done** when you are finished adding songs.

   The playlist will be saved.

Playing a Playlist

1. In the Music Player screen, press **Library**, then select **Playlists**. The **Playlists** screen appears in the display.
2. Highlight the desired playlist and press **Play**. The Music Player screen appears in the display and a music file begins playing.

This section outlines your phone's multimedia functions and key features associated with multimedia.

Accessing Multimedia

1. In Standby mode, press **Menu** (●), then select **Multimedia**. The following sub-menus appear in the display:
   - **Camera** — Lets you launch and set up your phone's camera. (For more information, refer to *"Camera"* on page 59.)
   - **Music Player** — Lets you play music files stored on an optional microSD Memory Card. (For more information, refer to *"Music Player"* on page 65.)
   - **My Images** — Lets you choose the pictures that appear in your phone's display or in picture messages.
   - **My Ringtones** — Lets you assign ringtones for Ringtone (calls), Contact ID, and Alert Tone.
   - **My Sounds** — Lets you assign melody tones for calls, alarms, and other alerts.
   - **Shuffle** — Lets you assign multiple images and melody tones that will play in random order for calls.

Tip: To launch the Multimedia menu using a voice command — In Standby mode, press the Voice Command key ( ). The phone prompts, "**Say a command.**" Say "**Go to Multimedia**" into the microphone.

2. Select the desired sub-menu. The following sections describe the above listed sub-menus in greater detail.

My Images

My Images lets you choose the pictures that appear in your phone's display while in Standby mode (Wallpaper) and as picture IDs for your contacts.

1. At the **Multimedia** menu, select **My Images**. A 3-by-2 or 2-by-3 matrix of thumbnail images of your pictures appears in the display.

Tip: You can also access My Images from:

– The Camera screen by pressing

– The **Edit Contact** screen by selecting the picture ID field and pressing **Set**.

2. To take additional pictures, press **Camera**.
3. To expand a picture to fill the screen, select it.
4. To access other options, press **Options**. The following options appear in the display:
   - **Send** — Lets you send the selected image to a specified recipient in a Picture message or Via Bluetooth.

- **Online Album** — Lets you access your online pictures that you sent to AlltelMyPics after taking a picture.
- **Set As** — Lets you assign the selected picture as the **Main Wallpaper**, or as a **Picture ID** for a Contact.
- **Erase Files** — Erases all pictures or selected pictures.
- **Move** — Move the currently displayed or highlighted picture between phone memory and an optional Memory Card.
- **View by Location** — Allows you to view pictures in Phone Memory, Card Memory, or All pictures.
- **Rename** — Lets you rename the picture.
- **Lock** / **Unlock** — Lets you prevent/permit picture deletion from phone memory.
- **Slide Show** — Lets you see a slide show of all of your images.
- **Picture Info** — Displays information about the picture, such as the picture **Name**, creation **Date** and **Time**, **Resolution**, and the data **Size**.

5. To return to the previous menu, press . To return to Standby mode, press .

My Ringtones

My Ringtones lets you assign ringtones (preloaded and downloaded) for Ringtone, Contact Id, and as Alert Tone.

1. At the **Multimedia** menu, select **My Ringtones**. A list of ringtones appears in the display.

Tip: You can also access My Ringtones from:

–A **Set Alarm** screen by selecting the **Ringer** option, highlighting the second (file name) field, pressing the Left or Right navigation key, and selecting **My Ringtones**.
(For more information, refer to *"Alarm Clock"* on page 84.)

–The **Edit Contact** screen by selecting the **Ringtone** field, pressing **Set**, and selecting **My Ringtones**. (For more information, refer to *"Editing an Existing Contact Entry"* on page 36.)

2. Use the Navigation key to highlight a particular ringtone.
   - Press to **PLAY** the ringtone.
   - Press **Info** to show the Title, File Size, and File Type.
3. Press **Set As** to assign the highlighted ringtone. The following options appear in the display:
   - **Ringtone** — Lets you assign the selected ringtone to incoming voice calls.
   - **Contact ID** — Lets you assign the selected ringtone as the distinctive ringer for a Contact.
   - **Alert Tone** — Lets you assign the selected ringtone to All Msg, Text Msg, Picture Msg, or Voicemail Msg.
4. Select the desired option.
5. When using a downloaded or recorded ringtone, press **Options** and the following options appear in the display:
   - **Lock** / **Unlock** — Lets you prevent/permit file deletion (phone memory only).
   - **Erase** — Erases the selected file.

- **Rename** — Lets you rename the selected file.
- **Ringtone Info** — Displays information about the selected file, such as the file name, the file type, and the data size.
- **Send Via Bluetooth** — Lets you send ringtones via Bluetooth.

6. Select the desired option.

My Sounds

My Sounds lets you record voice memos and lets you assign preloaded and downloaded sound files as ringers for calls, alarms, and other alerts.

1. From the **Multimedia** menu, select **My Sounds**. **Record New** and a list of sound files appears in the display.

Tip: You can also access **My Sounds** from:

-A **Set Alarm** screen by selecting the **Ringer** option, highlighting the second (file name) field, pressing the Left or Right navigation key, and selecting **My Sounds**.

-The **Edit Contact** screen by selecting the **Ringtone** field, pressing **Set**, and selecting **My Sounds**.

Note: Recorded sound files (voice memos) do not appear in these lists.

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2. Select the **Record New** option to record a voice memo. (For more information, refer to *"Voice Memo"* on page 72)
3. Press **Options**.
   - For a recorded sound file, a pop-up menu containing the following options appears in the display:
     - **Send** — Lets you send the selected sound file to a specified recipient in a Picture message or Via Bluetooth.
     - **Set As** — Lets you assign the selected sound file as the **Ringtone** or as the **Contact ID** for a Contact or an **Alert Tone** for Text, Picture, or Voicemail messages.
     - **Rename** — Lets you rename the sound file.
     - **Lock / Unlock** — Lets you protect the sound file from being deleted.
     - **Erase All** — Erases all sound files.
     - **Sound Info** — Displays information about the sound file, such as the Title, File Size, File Type, and Date.
   - For a preloaded sound file, a pop-up menu containing the following options appears in the display:
     - **Send** — Lets you send the selected sound file to a specified recipient in a Picture message.
     - **Set As** — Lets you assign the selected sound file as the **Ringtone** or as the **Contact ID** for a Contact or an **Alert Tone** for Text, Picture, or Voicemail messages.
     - **Erase All** — Erases all sound files.
     - **Sound Info** — Displays information about the sound file, such as the Title, File Type, and the Data Size.
   - For a downloaded sound file, the following options appear in the display:
     - **Set As** — Lets you assign the selected sound file as the **Ringtone** or as the **Contact ID** for a Contact or an **Alert Tone** for Text, Picture, or Voicemail messages.
     - **Rename** — Lets you rename the sound file.

– **Lock / Unlock** — Lets you protect the sound file from being deleted.
– **Erase All** — Erases all sound files.
– **Sound Info** — Displays information about the sound file, such as the Title, File Type, and the Data Size.

4. Select the desired option.

Voice Memo

You can use your phone to record voice memos for later playback.

Note: The maximum length for a single voice memo is 60 seconds.

You can save as many voice memos as will fit in the empty memory capacity.

Record a Voice Memo

1. From the **Multimedia** menu, select **My Sounds** → **Record New**. The **Record New** screen appears in the display.
2. Press **REC** (●), then start speaking. As it is recording the phone displays a countdown timer that shows the seconds remaining for the recording.
   • To pause the memo, press **Pause**. When a memo is paused, select **Resume** to continue recording.
3. Press **SAVE** (●) once you're finished recording. The new recording is saved, and the Standby mode screen appears in the display.

Review Voice Memos

If you've saved any voice memos, you can review them anytime.

1. From the **Multimedia** menu, select **My Sounds**. A list of sound files appears in the display.
2. Highlight the voice memo you wish to review.
3. Press **PLAY** (●) to play the voice memo.
   • To stop the memo, press **STOP** (●). Press ● again to restart playing the memo.

   When the voice memo finishes playing, the selected voice memo remains highlighted in the list of sound files.

Erase One Voice Memo

1. From the **Multimedia** menu, select **My Sounds**. A list of sound files appears in the display.
2. Highlight the voice memo you wish to erase.
3. Press **Erase**. "**Erase Sound?**" appears in the display.
4. To erase the selected voice memo, press **Yes**. To cancel, press **No**.

Erase All Voice Memos at One Time

1. From the **Multimedia** menu, select **My Sounds**. A list of sound files appears in the display.
2. Highlight a voice memo and press **Options** → **Erase all**. "**Erase all Sounds?**" appears in the display.

3. To erase all of the sound files, press **Yes**. To cancel, press **No**.

Shuffle

Shuffle lets you select sets of picture and sound files that display and play in random order.

Image Shuffle

1. From the **Multimedia** menu, select **Shuffle**. The following options appear in the display:
   - **Image Shuffle** — When set to **On**, presents a random slide show of a set of specified pictures as **Wallpaper** in Standby mode.
   - **Melody Shuffle** — When set to **On**, plays one of a set of specified ringtones and/or sound files, selected randomly, as the ringer for incoming calls.
2. Select **Image Shuffle**. The **Image Shuffle** screen appears in the display, showing the message "**No image shuffle**".
3. To select images for the Image Shuffle, do the following:
   - Press **Add**. The following options appear in the display:
     - **My Images**
     - **Preset Images**
   - Select the desired option. A list of image files appears in the display.
   - Select an image. A check mark appears in the check box for the selected image.

     Repeat this step for each image to be included in the Image Shuffle.
   - Press **Done**. You are prompted to save this entry. Press **Yes** to save this entry.

     The **Image Shuffle** screen appears in the display showing thumbnails of the selected pictures.
   - Press C. You are returned to the **Shuffle** screen.
4. To activate the Image Shuffle, use the navigation keys to highlight the **Image Shuffle** option, then press **Set As**. The following options appear in the display:
   - **On**
   - **Off**
5. Select the **On** option. "**Image shuffle set**" appears in the display, then you are returned to the **Shuffle** screen.

Melody Shuffle

1. From the **Multimedia** menu, select **Shuffle**. The following options appear in the display:
   - **Image Shuffle** — When set to **On**, presents a random slide show of a set of specified pictures as **Wallpaper** in Standby mode.
   - **Melody Shuffle** — When set to **On**, plays one of a set of specified ringtones and/or sound files, selected randomly, as the ringer for incoming calls.
2. Select **Melody Shuffle**. The **Melody Shuffle** screen appears in the display, showing the message "**No melody shuffle**".
3. To select sound files for the Melody Shuffle, do the following:

- Press **Add**. The following options appear in the display:
  - **My Ringtones**
  - **My Sounds**
- Select the desired option. A list of sound files appears in the display.
- Select a sound file. A check mark appears in the check box for the selected sound file.

  Repeat this step for each sound file to be included in the Melody Shuffle.
- Press **Done**. You are prompted to save this entry. Press **Yes** to save this entry.

  The **Melody Shuffle** screen appears in the display showing a list of the selected sound files.
- Press C. You are returned to the **Shuffle** screen.

4. To activate the Melody Shuffle, highlight the **Melody Shuffle** option, then press **Set As**. The following options appear in the display:
   - **On**
   - **Off**
5. Select the **On** option. "**Melody Shuffle set**" appears in the display, then you are returned to the **Shuffle** screen.

This section explains how to use your phone's digital assistant functions to view today's calendar, schedule events, set reminders, perform calculations, and more.

Accessing Your Phone's Tools

To launch the Tools menu:

- In Standby mode, press **Menu** (●), then select **Tools**. The **Tools** menu appears in the display.

Voice Service

Your U450 includes VoiceSignal, state-of-the-art voice recognition software that lets you use your voice to dial numbers, access your Contacts list, and open Tools. To access your phone's voice recognition, do the following:

1. At the **Tools** menu, select **Voice SVC**. The following options appear in the display:
   - **Voice Commands** — Lets you place calls, access your Contacts List, review your appointments, and more by speaking commands into your phone. (Also see *"Using Voice Dial"* on page 20 and see *"Voice Method"* on page 34 for more information.)
   - **Voice Settings** — Lets you tailor VoiceSignal to better respond to your voice and your phone use preferences. (For more information, refer to *"Digit Dialing"* on page 77.)
2. Highlight the desired sub-menu, then press ●.

Voice Commands

1. To access the Voice Commands menu, do one of the following:
   - In Standby mode, press and hold .
   - From the **Tools** menu, select **Voice SVC → Voice Commands**.

Note: You can also set your phone to start VoiceSignal when you open the flip or connect an optional headset to the phone. (For more information, refer to *"Voice Launch"* on page 78.)

"**Say a Command**" appears in the display and is pronounced through the earpiece, followed by a list of available commands:

- **Call** — Lets you dial the phone by saying any name stored in your contact list, without ever having to record, or "train" that name. VoiceSignal automatically voice-activates all your contacts, even if you have hundreds of them stored on your phone. You can also dial any telephone number, even if it is not stored in your contact list, by saying the digits in the number. (For more information, refer to *"Using Voice Dial"* on page 20.)
- **Send Text** — Lets you access Create Text Message.
- **Send Picture** — Lets you access Create Picture Message.
- **Lookup** — Lets you find a Contact by name and review the Contact's information.

- **Go to** — Lets you access the following list of your phone's features and functions:
  - **Messages**
  - **Calls**
  - **Phone Info**
  - **Alltel Shop**
  - **Multimedia**
  - **Navigation**
  - **Alltel Web**
  - **Tools**
  - **Tones**
  - **Contacts**
  - **Settings**
  - **Email**
- **Check** — Lets you say a single command (such as "**Status**") to verify your phone's: **Status**, **Signal**, **Coverage**, **Battery**, or **My phone #**.

2. Speaking clearly, say the command that you want to use.

   If VoiceSignal does not recognize a command, it prompts you to repeat the command.

   If VoiceSignal still does not recognized the command, it tells you "**No match found**" and offers you the option of selecting **Settings** or **Repeat** before canceling voice recognition.

Voice Command Tips:

- Make sure you wait for the beep before speaking.
- Speak clearly at a normal volume, as if you were talking on the phone.

Voice Settings

Choice Lists

When VoiceSignal cannot recognize a name or number, it displays a choice list of up to three possible choices, and prompts you to confirm the correct one.

You can select how VoiceSignal will use choice lists with name dialing, digit dialing, and contacts.

To change the way VoiceSignal uses choice lists:

1. From the **Tools** menu, select **Voice SVC** → **Voice Settings** → **Choice Lists**.
2. Highlight the Choice List behavior you prefer:
   - **Automatic** — VoiceSignal displays a choice list only when it is not sure if it has correctly recognized the name or number.
   - **Always On** — VoiceSignal always displays a choice list, even when there is only one choice.
   - **Always Off** — VoiceSignal never displays a choice list.
3. Press **OK** or press ● to accept the new setting. Press ⊏ to discard the new setting and return to the **Voice Settings** menu.

Sensitivity

1. From the **Tools** menu, select **Voice SVC** → **Voice Settings** → **Sensitivity**.
2. Use the Up and Down navigation keys to adjust the selected Sensitivity setting incrementally between **Reject More** spoken commands or names and **Reject Less** spoken commands or names.

3. Press **OK** or press ● to accept the new setting. Press ⊏ to discard the new setting and return to the **Voice Settings** menu.

Digit Dialing

If you regularly have trouble with VoiceSignal not recognize the numbers you say, try adapting digit dialing to your voice. Adapting can improve the accuracy of digit recognition, especially for people with strong regional accents.

Note: After you adapt Digit Dial, your phone is customized to your voice, and your voice only. Others will not be able to use it unless they reset the phone to factory defaults.

Adaptation involves recording several sequences of four digits each. The recording process takes about a minute.

Tips for Adapting Digit Dialing:

- Use Adapt Digits in a quiet place.
- Make sure you wait for the beep before starting to speak.
- Speak clearly, and say each digit distinctly.
- If you make a mistake while recording a sequence of digits, or if there is an unexpected noise that spoils the recording, re-record that sequence.
- Only adapt digits if you are regularly having problems with digit dialing. Once you adapt, digit dialing will not work as well for other people using your phone. (You can always reset digit adaptation to its original state, as described below.)

Adapt Digits

To adapt digit dialing, do the following:

1. From the **Tools** menu, select **Voice SVC → Voice Settings → Digit Dialing → Adapt Digits**. Your phone displays text describing the Adapt Digits process.
2. Press **OK** or press ●. Your phone displays the first digit sequence and "**Please say**" plays through the speaker followed by the four digits appearing in the display.
3. Wait for the beep and say the digits using your normal tone of voice. After a moment, the phone plays back the recording and prompts "**Did the recording sound ok?**"
   - If the recording was good, say "**Yes**."
   - If you need to re-record, say "**No**."

   If you say "No," the phone prompts you to pronounce the digits again. Wait for the beep and then say the digits.

   Repeat this step until you're satisfied with the recording.
4. After confirming that the recording sounds "ok", continue the recording process with the next set of digits.
5. After 10 sets of digits, the phone asks whether you want to do more adaptation. Answer "**Yes**."

6. Repeat steps 4 and 5 for another 10 sets of digits. After the second group of 10 sets of digits, "**Adaptation complete**" plays through the speaker and you are returned to the **Digit Dialing** menu.

Reset Digits

To reset digit dialing to factory default settings, do the following:

1. From the **Tools** menu, select **Voice SVC** → **Voice Settings** → **Digit Dialing** → **Reset Digits**. The phone prompts you to confirm digit reset.
2. Press **OK** or press ● to reset your digit adaptation, or press **Back** or press C to cancel.

Sound

Sound lets you specify what (if any) text prompts you want your phone to read to you through the earpiece.

1. From the **Tools** menu, select **Voice SVC** → **Voice Settings** → **Sound**. The following options appear in the display:
   - **Prompts** — On/Off — Enables or disables audio prompts.
   - **Digits** — On/Off — Enables or disables digit playback.
   - **Names** — On/Off — Enables or disables name playback.
   - **Name Settings** — Lets you adjust the **Speed** (Faster or Slower) and **Volume** (Louder or Softer) of your phone's audio name playback.
2. Select the desired option.
3. Highlight the desired setting.
4. Press **OK** or ● to accept the new setting. Press C to discard the new setting and return to the **Voice Settings** menu.

Voice Launch

To set the key or action that launches VoiceSignal, do the following:

1. From the **Tools** menu, select **Voice SVC** → **Voice Settings** → **Voice Launch**. The following options appear in the display:
   - **Key Only** — Press and hold ☎ to activate VoiceSignal for one call.
   - **Key/EarMic** — Attach a headset to your phone. Press and hold ☎ or press and hold the button on the headset to activate VoiceSignal.
2. Highlight the option you want.
3. Press **OK** or press ● to accept the new setting. Press C to discard the new setting and return to the **Voice Settings** menu.

About

This option causes the About VoiceSignal screen to appear in the display, showing version and build information about the VoiceSignal software included on your phone.

- From the **Tools** menu, select **Voice SVC → Voice Settings → About**.

  The **About Nuance** screen appears in the display showing the version level of the VoiceSignal software currently installed on your phone.

Bluetooth

Bluetooth is a short-range wireless communications technology capable of exchanging information over a distance of about 30 feet without requiring a physical connection.

Unlike infrared, you don't need to line up the devices to beam information with Bluetooth. If the devices are within a range of one another, you can exchange information between them, even if they are located in different rooms.

The Bluetooth wireless technology settings menu provides the ability to view and change the device name, show the visibility, and set the security for the device.

Turn Bluetooth On/Off

When the Bluetooth is turned on, you can use the Bluetooth features available. When the Bluetooth is turned off, you cannot send or receive information via Bluetooth. To save battery life or in situations where Bluetooth use is prohibited, such as airline traveling, you can turn off the Bluetooth wireless technology headset.

To turn Bluetooth support on:

- From the **Tools** menu, select **Bluetooth → Bluetooth Settings → Enable**.

  "**Bluetooth set to on**" and the blue Bluetooth On icon ( ) appear in the display.

To turn Bluetooth support off:

- From the **Tools** menu, select **Bluetooth → Bluetooth Settings → Disable**.

  "**Bluetooth set to off**" appears in the display and the and the blue Bluetooth On icon ( ) disappears.

Registered List

This menu provides a list of Bluetooth wireless technology devices discovered by your handset.

1. From the **Tools** menu, select **Bluetooth → Registered List**. A list of registered Bluetooth devices appears in the display.

Add New Device

To search for available Bluetooth devices:

1. From the **Tools** menu, select **Bluetooth → Registered List → Add New Device**.

If Bluetooth is off, you are prompted to "Turn Bluetooth on?". Press **Yes** to turn Bluetooth on.

Note: Press **No** to leave Bluetooth off and return to the **Bluetooth** sub menu.

"**Place device you are connecting to in discoverable mode**" appears in the display.

2. Place the Bluetooth device in discoverable mode. (See the device user manual for more information.)
3. Press ●. Your phone searches for available Bluetooth devices. The names of available devices appears in the display.
4. Highlight the device you want to pair with your phone.
5. Press **PAIR** (●) to pair the highlighted device with the phone. You are prompted to enter the passkey or PIN for the selected device.
6. Enter the device passkey or PIN and press ●. (See the device user manual for more information.) Pop-up messages appear to inform you that pairing with the device and connecting to it are complete.

Note: If you are pairing and connecting to another phone or to a personal computer, both devices prompt for a passkey or PIN. To successfully pair and connect your phone with the other device, the same passkey or PIN must be entered on both devices.

Connecting to a Bluetooth Device

From the Registered List,

1. Select a device.
2. If you are unable to connect with the device a pop-up appears in the display. Press **Yes** to retry.

Disconnecting from a Bluetooth Device

From the Registered List,

- ▶ Highlight the device and press **Off**.

Managing Your Registered List

From the Registered List,

1. Highlight a device and press **Options**. The following options appear in the display:
   - **Remove Device** — Deletes the device from the Registered List.
   - **Rename Device** — Lets you change or replace the device name, as needed.
   - **Service Discovery** — Shows the Bluetooth Profiles supported for a selected device.
   - **Device Info** — Shows the type of device, status, address, the date when it was paired with your phone, and the date the device was last connected with your phone.
   - **Send Name Card** — Allows you to send one or more selected Contacts entries to another compatible phone or other device over a Bluetooth connection.

- **Get Files** — Lets you connect to another device to get images, videos, ringtones, or sounds.

2. Select the desired option.

Bluetooth Settings

Enable/Disable

Selecting this option turns Bluetooth on or off. (For more information, see *"Turn Bluetooth On/Off"* on page 79.)

Discovery Mode

Allows other users to see your accessibility. Select **On** for other devices to see your device, or **Off** for no visibility.

Device Name

Shows the handset name. You may change this name. Enter the text and press .

Supported Profiles

Lists the Bluetooth profiles your phone supports. Selecting a profile shows a description of that profile.

Device Info

Shows the Bluetooth Type, Status, and Address of your phone.

Calendar

Calendar allows you to view the current, past, or future month in calendar format. While viewing the calendar, the current date is highlighted, and days with scheduled events are surrounded by a box.

Navigating the Calendar

1. From the **Tools** menu, select **Calendar**.

   The calendar appears in the display with the current date highlighted. The month and year appear at the top of the display.

2. Use the following controls to highlight a date in the Calendar screen:

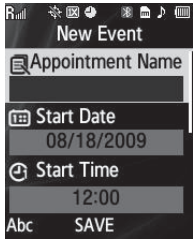
   - **Left/Right navigation keys** — Move the highlighting back/ahead one day per keypress.
   - **Up/Down navigation keys** — Move the highlighting back/ahead one week per keypress.
   - **Up/Down volume keys** — Moves the date and screen back/ahead one month per keypress.

Add a New Event

1. From the **Tools** menu, select **Calendar**.

   The calendar appears in the display with the current date highlighted. The month and year appear at the top of the display.

2. Navigate to a desired date. (For more information, refer to *"Navigating the Calendar"* on page 81.)



3. Press **Add**. The **New Event** screen appears in the display with the **Appointment Name** option highlighted.
4. Enter the **Appointment Name** using the keypad. (For more information, refer to *"Entering Text"* on page 42.)
5. Use the Up/Down navigation keys to highlight the following New Event options:
   - **Start Date** — Populated with highlighted Calendar date. To change the date, use the keypad.
   - **Start Time** — Populated with the current time (rounded to the nearest half-hour). To change the time, use the keypad.
     – Use the Left/Right navigation keys to select **AM** or **PM**.
   - **End Date** — Populated with highlighted Calendar date. To change the date, use the keypad.
   - **End Time** — Populated with a time one half-hour later than the **Start Time**. To change the time, use the keypad.
     – Use the Left/Right navigation keys to select **AM** or **PM**.
   - **Alert** — Select **Tone** / **Vibrate** / **Light Only** using the Left/Right navigation keys.
     – To select a particular Tone, use the Up/Down navigation keys to highlight the current Tone and press the Left/Right navigation key. The **Alert Tone** menu appears in the display. (For more information, refer to *"Ringer Type"* on page 93.)
   - **Reminder** — Select **Once** / **Every 2 Minutes** / **Every 15 Minutes** / **Off** using the Left/Right navigation keys.
   - **Alert Time** — Select **15 Min. Before** / **30 Min. Before** / **1 Hour Before** / **3 Hours Before** / **5 Hours Before** / **1 Day Before** / **On Time** / **5 Min. Before** / **10 Min. Before** using the Left/Right navigation keys.
6. To store this Event in your Calendar, press **SAVE** (●). An alarm will notify you prior to the Event, if **Reminder** is set to a value other than **Off**.

View/Change an Event

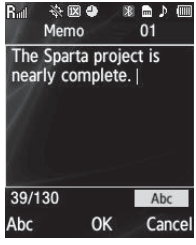
1. From the **Tools** menu, select **Calendar**.

   A calendar appears in the display with the current date highlighted. The month and year appear at the top of the display.
2. Navigate to a desired date. (For more information, refer to *"Navigating the Calendar"* on page 81.)
3. To open the highlighted date and show a list of Events, press **VIEW** (●).

4. Highlight an Event to view, then press **VIEW** ( ) to display the specifics of the highlighted Event.
5. To scroll the Event contents, use the Up/Down navigation keys.
6. To change the event details, press **Edit**. (For more information, refer to *"Add a New Event"* on page 81.)
7. To return to the Events list, press .
8. For other options, press **Options**. The following options appear in the display:
   - **Monthly** — Returns you to the Calendar screen.
   - **Erase** — Remove this event from the Calendar.
   - **Erase All** — Erase all events from the Calendar.
9. Select an option to invoke its function.

Memo Pad

Create notes and store them in Memo Pad. Notes that you create in Memo Pad can't be prioritized or assigned an alert. Return to Memo Pad anytime to review and edit your notes.



Create a Memo

1. From the **Tools** menu, select **Memo Pad**. A list of any stored Memos appears in the display.
2. To add a Memo, press **Add**. A numbered **Memo** screen appears in the display.
3. Enter Memo text using the keypad. (For more information, refer to *"Entering Text"* on page 42.)
4. When you're finished entering details for the Memo, press . The Memo is saved.
5. To discard this Memo and return to the **Memo Pad** screen, press **Cancel**.

Review, Edit, and Erase Memos

1. From the **Tools** menu, select **Memo Pad**. A list of any stored Memos appears in the display.
2. To review a Memo:
   - Highlight a Memo and press **VIEW** ( ). The numbered **Memo** view screen appears in the display.
   - Use the Up/Down navigation keys to scroll the Memo text.
3. To edit a Memo:
   - From the **Memo Pad** screen, highlight the Memo and press **Options**. The following options appear in the display:
     - **Edit** — Change the currently highlighted Memo.
     - **Erase** — Erase the highlighted Memo.
     - **Erase all** — Erase all of the unlocked memos.
     - **Lock** / **Unlock** — Prevent/allow erasure of the highlighted Memo.

Select **Edit**. The numbered **Memo** edit screen appears in the display.

- From the **Memo** view screen, press **Edit**. The numbered **Memo** edit screen appears in the display.
- Use the keypad to change the Memo text. (For more information, refer to *"Entering Text"* on page 42.)
- When you're finished changing the Memo, press ●. The changed Memo is saved.

4. To erase a Memo:
   - From the **Memo Pad** screen, highlight the Memo and press **Options**. The following options appear in the display:
     - **Edit** — Change the currently highlighted memo.
     - **Erase** — Erase the highlighted memo.
     - **Erase all** — Erase all of the unlocked memos.
     - **Lock** / **Unlock** — Prevent/allow erasure of the highlighted memo.

     Select **Erase**. You are prompted to confirm the erasure.
   - From the **Memo** view screen, press **Options**. The following options appear in the display:
     - **Erase** — Erase the Memo you are viewing.
     - **Add New Memo** — Add a new Memo to Memo Pad.
     - **Lock** / **Unlock** — Prevent/allow erasure of the Memo you are viewing.

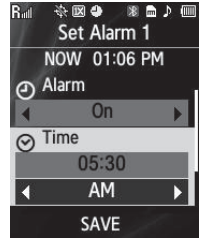
     Select **Erase**. You are prompted to confirm the erasure.
   - To erase the Memo, press **Yes**. To keep the Memo, press **No**.

Alarm Clock

Your phone has three alarm clocks that you can set to go off once, or to recur daily at a specific time. Once set, an alarm clock is easy to change or turn off completely.

Note: The Alarm Clock doesn't function when the phone is turned off. If the time for an alarm that was set for Once has elapsed while the phone is off, the alarm occurs at the specified time on the next day.

Set an Alarm



1. From the **Tools** menu, select **Alarm Clock**. The following options appear in the display:
   - **Alarm 1**
   - **Alarm 2**
   - **Alarm 3**
2. Select the alarm clock that you wish to set. The selected **Set Alarm** screen appears in the display with the **Alarm** option highlighted and with the current time showing above it.
3. Use the Up/Down navigation keys to highlight the following Set Alarm options:
   - **Alarm** — Use the Left/Right navigation keys to select **On** or **Off**.

- **Time** — Populated with the current time. To change the time, use the keypad.
  - Use the Left/Right navigation keys to select **AM** or **PM**.
- **Frequency** — Use the Left/Right navigation keys to select **Daily** / **Mon.–Fri.** / **Weekends** / **Once**.
- **Ringer** — Select **Tone** / **Vibrate** / **Light Only** using the Left/Right navigation keys.
  - To select a particular Tone, use the Up/Down navigation keys to highlight the current Tone, then press the Left/Right navigation key. The **Alert Tone** menu appears in the display. (For more information, refer to *"Ringer Type"* on page 93.)

4. When you're finished entering the time and frequency for the alarm, press **SAVE**. If the Alarm is set to **On**, the alarm icon ( ) appears in the top of the display.

When an Alarm Sounds

An animated alarm clock appears in the display and an alert sounds when the specified time for the alarm arrives.

- To silence the alarm, press .
- If the alarm was set as a **Daily** alarm, the alarm icon remains in the top of the display.
- If the alarm was set as a **Once** only alarm, the alarm icon disappears from the top of the display.

Turn Off an Alarm

1. From the **Tools** menu, select **Alarm Clock**. The following options appear in the display:
   - **Alarm 1**
   - **Alarm 2**
   - **Alarm 3**
2. Highlight the Alarm you wish to turn off, then press **Options**. The following options appear in the display:
   - **Off** — Disables the highlighted Alarm and retains the current settings.
   - **Reset Alarm** — Disables the highlighted Alarm and resets the Alarm settings to default values.
   - **Reset All** — Disables all Alarms and resets all Alarm settings to default values.
3. Select the desired option to turn the selected Alarm(s) off.

World Time

World Time lets you view the time of day or night in any of the 24 different time zones around the world.

Note: To use **World Time**, you need to subscribe to your Wireless Provider's digital service.

Changing Time Zones

1. From the **Tools** menu, select

World Time. A world map appears in the display.

2. Press the Navigation key Left/Right to browse cities and their current times. The following cities are supported.

EST/EDT : New York, Miami	**Caracas, La Paz**	**Newfoundland**
Buenos Aires, Brasilia	**Mid Atlantic**	**Cape Verde**
London, Lisbon	**Rome, Paris, Berlin**	**Athens, Helsinki, Istanbul**
Moscow, Jidda, Nairobi	**Tehran**	**Dubai**
Kabul	**Karachi, Tashkent**	**Mumbai, New Delhi**
Kathmandu	**Almaty, Dhaka**	**Bangkok, Jakarta, Hanoi**
Hong Kong, Beijing	**Seoul, Tokyo**	**Adelaide**
Guam, Sydney	**Okhotsk**	**Wellington, Auckland**
Samoa, Midway	**HAST/HADT : Honolulu, Hawaii**	**AKST/AKDT : Alaska**
PST/PDT : Los Angeles, San Francisco	**MST/MDT : Denver, Phoenix**	**CST/CDT : Chicago, Dallas**

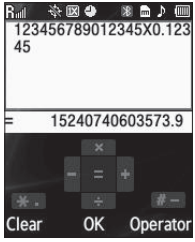
Tip: To select a city from an alphabetical list, press **Option**, then select **Go to City**.

3. To show Daylight Saving Time, press **DST On**. A check mark appears in the check box next to "**Daylight saving time**". The DST icon ( ) appears in the display, indicating that Daylight Saving Time is enabled.
4. To set the highlighted city/time zone as the secondary time zone for your phone (the time that appears below the map), press **OK**.
5. To set the highlighted city/time zone as the home time zone for your phone (the time that appears above the map), press **Option**, then select **Set as home zone**.

Calculator

You can perform calculations, including addition, subtraction, multiplication and division using your phone.

1. From the **Tools** menu, select **Calculator**. The Calculator screen appears in the display.



2. Enter the first number in your equation using the keypad. (Numbers can be up to 9 digits long, and can include a decimal point followed by up to 3 more digits.)
   - Press * to enter a decimal point.
   - Press # to change the sign for a number to a negative.
3. Press **Operator** to add parentheses [( )] to your equation or to enter a **Power** exponent (^), such as, 3^2, which is the equivalent of 3^2.
4. Press **Clear** to clear current entries.
5. Use the Navigation keys (as shown in the **Calculator** screen) to set the type of calculation that you wish to perform. Your choices are as follows.
   - [**+**] Addition
   - [**x**] Multiplication
   - [**-**] Subtraction
   - [**÷**] Division
6. Use the keypad to enter the second number into your equation.
7. Press OK to perform the calculation and view the result.

Stop Watch

You can use this function to set a stop watch.

1. From the **Tools** menu, select **Stop Watch**. The **Stop Watch** screen appears in the display.
2. Press OK to start, stop, and resume the Stop Watch count.
3. Press **Record** at the start of each succeeding event/lap to record the completion time for the previous event/lap. You can record up to eight event/lap times.
4. Press **Reset** to reset the Stop Watch and to erase all Stop Watch (lap) times recorded.

Converter

The conversion menu provides the following conversion categories:

- Currency
- Length
- Weight
- Volume
- Area
- Temperature

Using Converters

To convert a currency, length, weight, volume, area, or temperature, do the following:

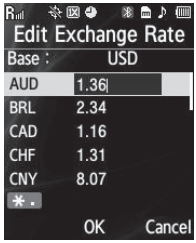
1. From the **Tools** menu, select **Converter**. The following list of converters appears in the display:
   - **Currency**
   - **Length**
   - **Weight**
   - **Volume**
   - **Area**
   - **Temperature**
2. Select the conversion feature you wish to use.
3. Use the Navigation key to select the units to be converted **From** and **To**.
4. Enter the quantity you want converted in the **From** field. The converted quantity appears in the **To** field.

Note: To include a decimal point, press the * key.

Currency — Reviewing/Editing Exchange Rates

The Currency Converter includes long-term average exchange rates as default values. To review and/or change a default exchange rate to the current exchange rate, do the following:

1. From the **Tools** menu, select **Converter** → **Currency**.
2. Press **Rate**. The **Exchange Rate** list appears in the display.
3. Press **EDIT** (●). The **Edit Exchange Rate** list appears in the display showing U.S. Dollar (USD)-based exchange rates.



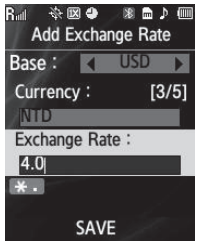
4. Highlight a currency whose exchange rate you wish to change.
5. Use the keypad keys to change the selected U.S. Dollar (USD)-based exchange rate value.
6. Press ● to save the changed exchange rate. The **Exchange Rate** list appears in the display.
7. To change any other exchange rates, repeat Steps 3 – 6.
8. Press **Cancel** to return to the **Converter** screen.

Currency — Adding Exchange Rates

You can use the Currency Converter to convert from and to obscure currencies by adding exchange rates for these currencies. To add a currency and its exchange rate to the Currency Converter, do the following:

1. From the **Tools** menu, select **Converter** → **Currency**.
2. Press **Rate**. The **Exchange Rate** list for the **From** currency appears in the display.

3. Press **Add**. The **Add Exchange Rate** screen appears in the display with the **Base** field highlighted.
4. press the Navigation key Left/ Right to select the **Base** currency to be converted from.
5. Press the Navigation key Down to highlight the **Currency** field.



6. Enter an identifier of up to 5 characters for the new currency using the keypad. (For more information, refer to *"Entering Text"* on page 42.)
7. Highlight the **Exchange Rate** field.
8. Enter a decimal exchange rate for the new currency using the keypad.

Note: Press the * key to enter the decimal point.

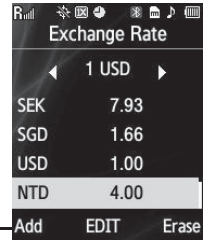
The **Exchange Rate** field only accepts up to five digits after the decimal point.

9. To add the new exchange rate to the list, press **SAVE**.

Currency — Erasing Exchange Rates

You cannot erase the preloaded currencies from the Exchange Rate list. You can erase a currency that you have added to the list by doing the following:

1. From the **Tools** menu, select **Converter** → **Currency**.
2. Press **Rate**. The **Exchange Rate** list for the **From** currency appears in the display.
3. Highlight the user-added currency exchange rate to be erased.
4. Press **Erase**. You are prompted to confirm the erasure.



Note: The **Erase** soft key is undefined for preloaded Exchange Rates. This prevents you from erasing them.

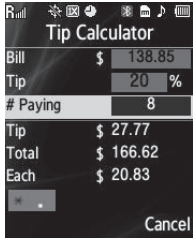
5. To erase the selected exchange rate, press **Yes**. To keep the selected exchange rate, press **No**.

Tip Calculator

Tip Calculator automatically calculates the following amounts:

- Gratuity (tip)
- Individual payment (for groups)

Calculations are based on the total amount of the check, a selected gratuity percentage, and the number of people paying.



1. From the **Tools** menu, select **Tip Calculator**. The **Tip Calculator** screen appears in the display with the **Bill** field highlighted.
2. Enter the total amount of the bill using the keypad.

Note: To include a decimal point, press the * key.

3. If needed, press the Down navigation key to highlight the **Tip** field.
4. Enter a tip percentage using the keypad.
5. If needed, press the Down navigation key to highlight the **# Paying** field.
6. Enter the number of persons paying using the keypad.
7. The amount of the **Tip**, the bill **Total**, and the amount **Each** person should pay appear in the lower half of the screen.

This section explains how to customize your phone to suit your needs and preferences.

Settings Menu

▶ To access the **Settings** menu, press **Menu** (●), then select **Settings**. The **Settings** menu appears in the display.

Location

This function identifies your location to the network via the Global Positioning System (GPS). You can set this function for continuous operation or to operate only in the event that you dial 911.

Note: Contact your Wireless Provider to determine whether, when, or where location-based services are available.

1. From the **Settings** menu, select **Location**. The following options appear in the display:
   - **Location On** — GPS location setting is on whenever you make or receive a call, wherever the feature is available.
   - **911 Only** — GPS location setting is on only when you dial 911.
2. Select the desired Location setting. You're returned to the **Settings** menu.

Display Settings

Using the **Display** menu, you can set the menu style, set the Standby mode animation, customize the backlight settings, and more.

▶ From the **Settings** menu, select **Display Settings**. The following options are available:

Wallpaper

Wallpaper lets you choose the pictures that appear in your phone's displays while in Standby mode.

1. From the **Settings** menu, select **Display Settings** ➔ **Wallpaper**. The following options appear in the display:
   - **Main Screen**
   - **Buy wallpaper**
2. Select the sub-menu you wish to enter.

   The following options appear in the display:
   - **My Images** — Choose a picture to appear in the display when the phone is in Standby mode.
   - **Preset Images** — Choose a preset image to appear in the display when the phone is in Standby mode.
   - **Image Shuffle** — Main Display only — Choose your Image Shuffle set of images to appear in the main display as a slide show

when the phone is in Standby mode. (For more information, refer to *"Image Shuffle"* on page 73.)

3. Select the sub-menu that you wish to enter.
   - For **My Images** and **Preset Images** up to four pictures or images appear in the display.
4. Select a picture or image to display when the phone is in Standby mode.

Clock

Clock lets you choose whether to show the time in the Standby mode display.

1. From the **Settings** menu, select **Display Settings** ➔ **Clock** ➔ **Main Clock**. The following options are available:
   - **On** — The current time appears as large numbers on the second line of the Standby mode display.
   - **Off** — The current time does not appear in the Standby mode display.
2. Select the desired setting.

Banner

Create your own personalized greeting that appears in the display while your phone is in Standby mode.

1. From the **Display Settings** menu, select **Banner**. The **Banner** screen appears in the display with the **Enter Text** field highlighted.
2. Enter a word or short phrase to appear in your phone's display while in Standby mode (Up to 12 characters). (For more information, refer to *"Entering Text"* on page 42.)
3. To erase an existing banner, if necessary, press and hold C.
4. Press OK to save your changes.

Backlight

You can set the backlight for your display or keypad to remain on or off or to remain on for a specified period of time.

Note: Prolonged backlight use drains your battery faster.

1. From the **Settings** menu, select **Display Settings** ➔ **Backlight**. The following sub-menus appear in the display:
   - **Main Display** — Sets the amount of time the main display backlight remains on with the phone idle. Optional settings are 7, 10, 15, or 30 Seconds and Always On (this setting uses much more power than the timed settings and disables the **Brightness** setting).
   - **Keypad** — Sets the amount of time the main display backlight remains on with the phone idle. Optional settings are 7, 10, 15, or 30 Seconds and Always On (this setting uses much more power than the timed settings).

- **Charging** — Sets the backlight to On or Off while a charger is connected to the phone.
- **Brightness** — Use the Left and Right soft keys to select between any of 5 optional settings.

2. Select a Backlight option and a setting for the option.

Sounds Settings

The Sounds Settings menu provides a variety of options to customize audio properties for such things as ringers, keypad tones alerts, and more.

▶ From the **Settings** menu, select **Sound Settings**. The following options are available.

Master Volume

You can set the master volume setting on your phone. This setting if for all sounds other than the ring tones.

1. From the **Sound Settings** menu, select **Master Volume**.

   Options are:

   - **Silence All**
   - **Alarm Only**
   - **Vibrate**
   - **1 Beep**
   - **Low**
   - **Low/Medium**
   - **Medium**
   - **Medium/High**
   - **High**

2. Use the Navigation key or the Volume key to display the setting you wish. When you are satisfied with the setting, press **OK** (●). Your phone returns to the Sound Settings menu.

Ringer Type

You can assign ringer types and melody tones for calls, alarms, and other alerts, in the Ringer Type sub-menu.

1. From the **Sound Settings** menu, select **Ringer Type**.

   The following options appear in the display:

   - **Voice Calls** — Lets you set which ringtone, sound file, and/or one of a set of ringtones and/or sound files plays when you receive a voice call.
   - **Messages** — Lets you set which ringtone or sound file plays when you receive a Text Message, Picture Message, and/or Voicemail message.
   - **Buy a Ringtone** — Connects you with the network and lets you buy a ringtone.

2. Select the desired sub-menu. The following sub-menu options appear in the display:
   - For **Voice Calls**, the following options appear in the display:
     - **My Ringtones**
     - **My Sounds**
     - **Melody Shuffle** (For more information, refer to *"Melody Shuffle"* on page 73.)

- For **Messages**, the following options appear in the display:
  - **Text Message**
  - **Picture Message**
  - **Voicemail**

3. Select the desired sub-menu option, then select the desired ringer.

Alerts

You can set your phone to sound an alert whenever you enter or leave your service area, connect or disconnect a call, as well as other options.

1. From the **Sound Settings** menu, select **Alerts**.

   The following Alerts options appear in the display:

   - **Minute Beep** — Sounds an alert ten seconds before each elapsed minute of a call.
   - **Roaming** — Sounds an alert when you leave your home service area during a call.
   - **Call Connect** — When you make a call, an alert sounds when the call is answered.
   - **Power On/Off** — Plays a melody when the phone is being turned on or off.

2. Select the desired Alert option.
3. Select the desired value for the selected Alert.

Key Tone

Key Tone lets you adjust the volume level and length of tone that the keypad generates each time you press a key.

1. From the **Sound Settings** menu, select **Key Tone**. The following sub-menus appear in the display:
   - **Tone Level** (volume)
   - **Tone Length**
2. Select the desired Key Tone sub-menu.
   - For **Tone Level**, do the following:
     - Use the Volume keys or Navigation key to set the keypad tones volume.
     - Press ● to save your setting and return to the **Key Tone** sub-menu.
   - For **Tone Length**, do the following:
     - Highlight **Normal** or **Long**.
     - Press ● to save your setting and return to the **Key Tone** sub-menu.

Vibrating Alert

1. From the **Sound Settings** menu, select **Vibrating Alert**. The following options appear in the display:
   - **On** — Alerts sound and vibrate.
   - **Off** — Alerts sound only.
2. Select the desired setting.

Call Settings

Call settings let you customize how your handset responds to incoming and outgoing calls.

1. From the **Settings** menu, select **Call Settings**. The following options are available.

Call Answer

You can select a specific answer mode when you receive an incoming call.

1. From the **Call Settings** menu, select **Call Answer**.

   The following call answer settings appear in the display:

   - **Any Key** — Press any key except the or Left soft key to answer an incoming call.
   - **Send Key** — Press to answer an incoming call.

Tip: You can set your phone to answer calls automatically, without any input from you. (For more information, refer to *"Auto Answer"* on page 95)

2. Select the desired call answering method.

Call Alert

1. From the **Call Settings** menu, select **Call Alert**. The following Call Alert settings appear in the display:
   - **Ring Only** — Phone rings for an incoming call.
   - **Caller ID + Ring** — Phone rings and the display shows caller ID for an incoming call.
   - **Name Repeat** — Phone repeats displaying Contact name or caller ID.
2. Select the desired call alerting method.

Auto Answer

Auto Answer enables your phone to automatically answer calls after a period of time that you specify.

1. From the **Call Settings** menu, select **Auto Answer.** The following settings appear in the display:
   - **Off** — Disables automatic answering of calls
   - **After 1 Second** — Phone automatically answers calls after 1 second
   - **After 3 Seconds** — Phone automatically answers calls after 3 seconds
   - **After 5 Seconds** — Phone automatically answers calls after 5 seconds
2. Select the desired call automatic answering method.

Auto Retry

Auto Retry automatically re-dials a number if the connection fails. Depending upon your location, the number of times your phone automatically dials the number may vary.

1. From the **Call Settings** menu, select **Auto Retry**. The

following settings appear in the display:

- **Off** — Disables automatic re-dialing of numbers
- **Every 10 Seconds** — Phone automatically re-dials a number every 10 seconds
- **Every 30 Seconds** — Phone automatically re-dials a number every 30 seconds
- **Every 60 Seconds** — Phone automatically re-dials a number every 60 seconds

2. Select the desired call automatic retrying method.

TTY Mode

Your phone is fully compatible with TTY equipment used by those who are hearing impaired. TTY equipment is connected to your phone through the power/accessory connector on the left side of the phone. TTY Mode must be enabled before you can use your phone with a TTY device.

1. From the **Call Settings** menu, select **TTY Mode**. You are prompted to confirm you want to change the current TTY Mode setting.

Note: The "**Enabling TTY may impair headset use and non-TTY accessory performance**" message pops up when you select **TTY Mode**.

2. To access the TTY Mode settings, press **Yes**. To return to the **Call Settings** sub-menu, press **No**.
3. If you press **Yes**, the following settings appear in the display:
   - **TTY Full** — Enables TTY mode and disables microphone and earpiece.
   - **TTY+Talk** — Enables TTY mode and microphone.
   - **TTY+Hear** — Enables TTY mode and earpiece.
   - **TTY Off** — Disables TTY mode.
4. Select the desired TTY Mode.

Note: The TTY icon ( ) appears in the top of the display when the phone is in Standby mode.

Voice Privacy

Voice Privacy when enabled (that is, set to **Enhanced**), turns on advanced voice encryption.

1. From the **Call Settings** menu, select **Voice Privacy.** The following settings appear in the display:
   - **Standard** — Voice privacy is disabled.
   - **Enhanced** — Voice privacy is enabled.
2. Select the desired Voice Privacy setting.

Data Settings

Use the Data Settings menu to configure data connection settings.

1. From the **Call Settings** menu, select **Data Settings**. The following settings appear in the display:
   - **Data Off** — No incoming data calls accepted.
   - **Data For Next Call** — Wait for data call for the next 10 minutes.
   - **Data Until Powered Off** — Data calls only, no voice calls accepted, until you power the phone off and on again.
2. Select the desired data call connection setting.

Hearing Aid Mode

Hearing Aid Mode lets you enable/disable your phone's support of hearing aids.

1. From the **Call Settings** menu, select **Hearing Aid Mode.** The following settings appear in the display:
   - **On** — Voice privacy is enabled.
   - **Off** — Voice privacy is disabled.
2. Select the desired Hearing Aide mode.

Phone Settings

Phone Setting let you customize your phone's basic operations to suit your situation or preferences.

▶ From the **Settings** menu, select **Phone Settings**.The following options are available.

Airplane Mode

When set to **On**, Airplane Mode disables all radio functions of your phone. This prevents you from receiving or making calls (except emergency calls), but allows you to use other features (such as the camera and the Tools) safely in sensitive environments, such as on board an aircraft.

1. From the **Phone Settings** menu, select **Airplane Mode**.The following settings appear in the display:
   - **On** — Disables the radio transmitter and receiver in your phone
   - **Off** — Enables the radio transmitter and receiver in your phone
2. Select the desired Airplane Mode setting.

Shortcut Key

Lets you set which feature, function, or application launches when you press the Navigation key Up, Down, Left, or Right while in Standby mode.

1. From the **Phone Settings** menu, select **Shortcut Key** ➔ **Up Key** / **Right Key** / **Down Key** / **Left Key**. The following settings appear in the display:

- **Alltel Shop**
- **Alltel Web**
- **Messages**
- **Inbox**
- **Contacts**
- **My Images**
- **My Ringtones**
- **My Sounds**
- **Calendar**
- **Memo Pad**
- **Calculator**
- **Stop Watch**
- **Converter**
- **Tip Calculator**
- **Music**

- **Recent Calls**
- **Voice Commands**
- **Alarm Clock**
- **World Time**
- **Bluetooth**
- **Wallpaper**

2. Select the desired Shortcut Key setting.

Language

The language option on your phone can change the language of voice prompts, menus, and key-input.

1. From the **Phone Settings** menu, select **Language**. The following settings appear in the display:
   - **English**
   - **Español**
2. Select the desired Language setting.

Security

Use the Security menu to lock your phone, set up emergency numbers, set restrictions, as well as other security options.

1. From the **Phone Settings** menu, select **Security**. You're prompted to enter the lock code.

Note: The default lock code is the last four digits of your telephone number.

2. Enter the lock code, the following options are available.

Lock Phone

Locking the phone limits all outgoing calls except calls to 911 emergency and the three user-programmable emergency numbers. You can lock the phone manually during use, or set the phone to lock automatically when it is turned on. With the phone in lock mode, you can answer incoming calls, but you must unlock the phone to place outgoing calls (except to emergency and secret numbers).

1. From the **Security** menu, select **Lock Phone**. The following phone Lock mode settings appear in the display:
   - **Lock** — Locks the phone immediately (The phone stays locked until you enter the lock code.)
   - **Unlock** — Unlocks the phone.
   - **On Power Up** — The phone locks automatically the next time your phone is powered ON (The phone stays locked until you enter the lock code.)
2. Select the desired phone Lock mode setting.

Tip: You can manually lock your phone by pressing and holding . (For more information, refer to *"Lock Mode"* on page 15.)

Change Lock

The default lock code for your phone is generally the last four digits of your phone number. It is advisable to change the default lock code to a secret code for security purposes.

1. From the **Security** menu, select **Change Lock**. You're prompted to enter the new lock code.
2. Enter the new lock code. You're prompted to re-enter the new lock code for verification.
3. Enter the new lock code again. Your new Lock Code is stored.

Note: Your phone does not allow you to view the Lock Code for obvious security reasons. If you change the Lock Code, be sure to write down or memorize the new code.

Emergency

Your phone provides the option of storing three emergency numbers. Each number can be up to 32 digits in length. All emergency numbers can be manually called at any time, even when your phone is locked or restricted. This can be a useful feature for controlling outgoing calls from your phone.

Note: Emergency number 911 is hard-coded into your phone. You can dial this number any time, even when the phone is locked or restricted. If you call 911 an audible tone is heard and an Emergency prompt appears in the display for the duration of the call.

Important!: Because of various transmission methods, network parameters, and user settings necessary to complete a call from your wireless phone, a connection cannot always be guaranteed. Therefore, emergency calling may not be available on all wireless networks at all times.

Important!: DO NOT depend on this phone as a primary method of calling 911 or for any other essential or emergency communications.

Remember to always turn your phone on and check for adequate signal strength before placing a call.

Store Emergency Numbers

1. From the **Security** menu, select **Emergency #**.
2. Select from the three emergency number entries.
3. Enter an emergency number (up to 32 digits in length).
4. Press ● to save the number that you entered.

Call Emergency Numbers in Lock Mode

1. In Standby mode, enter the emergency number.
2. Press [ ] to place the call.

Reset Phone

Reset Phone returns all Settings to their factory default values.

1. From the **Security** menu, select **Reset Phone**. You are prompted to confirm that you want to restore default

settings (except for the Contacts and Voice Dial).

- To return to the **Security** sub-menu without resetting the phone, press **No**.
- To restore default settings, press **Yes**.

Erase All Entries

Erase All Entries erases your Contacts and Group information (except Default). This feature is useful if you want to give your phone to someone else.

1. From the **Security** menu, select **Erase All Entries**. You are prompted to confirm erasure of all Contacts entries.

Note: This procedure does not delete your Photo Gallery. The Photo Gallery needs to be deleted separately.

2. To erase all entries, press **Yes**. To keep the current entries and return to the **Security** sub-menu, press **No**.

Restrictions

Restrictions lets you restrict the use of your phone for outgoing calls, incoming calls, and calls placed from your Contacts.

1. From the **Security** menu, select **Restrictions**.
2. Select **Outgoing Calls** or **Incoming Calls**. The following options appear in the display:
   - **Allow All** — No restriction on selected calls.
   - **Allow None** — Restrict (block) all selected calls.
   - **Allow Contacts** — Restrict selected calls from/to numbers not in your Contacts list.
3. Select the desired call Restrictions setting.

NAM Selection

The Network menu allows you to select **NAM** (Number Assignment Module) settings for your phone. You can store two **NAM** settings, which are essentially telephone numbers, for your phone.

1. From the **Phone Settings** menu, select **NAM Selection**. The following options appear in the display:
   - **NAM1** — Your service contract has one phone line.
   - **NAM2** — Your service contract has two phone lines.
2. Select the desired NAM setting. The phone powers itself off and back on.

System Select

The **System Select** menu allows you to select the roaming setting for your phone.

1. From the **Phone Settings** menu, select **System Select**.

   The following roaming options appear in the display:
   - **Home only** — Your phone is available for normal operation only within your designated coverage area.

- **Automatic-A** — Your Wireless Provider's Preferred Roaming List (PRL) of networks is used to acquire service. If no preferred networks are found, any digital "A" system is acquired.
- **Automatic-B** — Your Wireless Provider's PRL is used to acquire service. If no preferred networks are found, any digital "B" system is acquired.

2. Select desired roaming option.

Set Time

Use the **Set Time** option to set the current date and time.

Note: In digital service mode, the Set Time feature is disabled. The network adjusts time and date automatically.

With **Airplane Mode** set to **On**, this function is enabled. In digital service mode, setting **Airplane Mode** to **Off** also disables Set Time. (For more information, refer to *"Airplane Mode"* on page 97.)

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1. From the **Phone Settings** menu, select **Set Time**. The following options appear in the display:
   - **Set Time**
   - **Set Date**
2. Select the desired option.
   - For **Set Time**, the **Set Time** screen appears in the display.
     – Enter the current time using your keypad.
     The hour and minute must be entered using two digits each and in 12/24-hour format.
     – Use the Left and Right navigation keys to select **AM**, **PM**, or **24 Hours**.
     – Press ● to save the your time setting.
   - For **Set Date**, the **Set Date** screen appears in the display.
     – Enter the current date using your keypad.
     The month and day must be entered using two digits each. The year must be entered using all four digits.
     – Press ● to save your date setting.

Quick Search

Quick Search is an easy way to locate Contacts.

1. From the **Phone Settings** menu, select **Quick Search**. The following options appear in the display:
   - **On** — Quick Search is enabled.
   - **Off** — Quick Search is disabled.
2. Select the desired Quick Search setting.

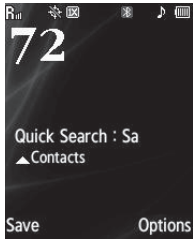
Searching for a Contact

1. In Standby mode, press the first few numeric keys that correspond to the letters of the Contact name.

For example, to search for "Sally" you could enter:

7 pqrs 2 abc

S A



2. Press the Up navigation key. The Contacts **Find** screen appears in the display with the first Contact name matching your entry highlighted.
3. Highlight the desired Contact and press [ ] to call the contact.

PC Connection

PC Connection lets you allow or block PC connections to your phone, using an optional USB Data Cable.

1. From the **Settings** menu, select **Phone Settings** ➔ **PC Connection**. The following settings appear in the display:
   - **USB Mass Storage** — Your phone appears as a removable disk drive to your PC, allowing you to transfer files (such as, music or text files) to and from your phone.
   - **No Connection** — Blocks connection and file transfers with a PC.
2. Select the desired setting.

Auto Key Lock

With Auto Key Lock set to On, your phone automatically disables its keys when the screen backlight goes out.

1. From the **Phone Settings** menu, select **Auto Key Lock**. The following settings appear in the display:
   - **On**
   - **Off**
2. Select the desired option.

To unlock the keys:

1. Press **Unlock**. "**Press 0 to unlock**" pops-up in the display.
2. Press [ ].

Memory Info

Memory Info lets you quickly and easily review and manage your phone memory usage. To access **Memory Info**, do the following:

▶ From the **Settings** menu, select **Memory Info**. The following options are available.

Save Options

Lets you specify where you want your images and videos stored. To access **Save Options**, do the following:

1. From the **Memory Info** menu, select **Save Options** ➔ **Images**
2. Select the desired file type. The following storage options appear in the display:

- **Phone Memory** — saves image files in your phone's memory.
- **Card Memory** — saves image files on a removable microSD memory card.

3. Select the desired storage location. "**Save Options set**" appears in the display, and you are returned to the **Save Options** menu.

Phone Memory

Lets you review your phone's available memory and manage your files stored there.

▶ From the **Memory Info** menu, select **Phone Memory**. The following options are available.

Memory Usage

Memory Usage lets you review your usage of your phone's memory.

1. From the **Phone Memory** menu, select **Memory Usage**. The Memory Usage screen appears in the display showing the following information:
   - **Total Used** memory usage
   - **Available** unused memory
   - **My Images** memory usage
   - **My Ringtones** memory usage
   - **My Sounds** memory usage
   - **Applications** memory usage
   - **Pic Msg** memory usage
2. Press ● to return to the **Phone Memory** menu.

Freeing Memory

Phone Memory sub-menus let you list files in your multimedia folders and let you erase or move files as needed to free up memory on your phone for reuse.

1. From the **Phone Memory** menu, select **My Images** / **My Ringtones** / **My Sounds**. A list of all files in the related folder appears in the display.

   Files are listed by name, and each file entry shows the name and size of each file.
2. To erase files, do the following:
   - Press **Options**, then select **Erase**.
     – or –
     Press **Erase**,
   - Highlight a file you want to erase, then press ● to mark the file for erasure. (Select **Options** → **Mark All** to mark all files for erasure.)
   - Press **Done**. You are prompted to confirm erasure of the selected file(s).
   - Press **Yes** to erase all marked files or press **No** to return to the **Erase** screen.
3. To move files to the Memory Card, do the following:
   - Press **Options**, then select **Move**.

- Highlight a file you want to move, then press ● to mark the file for moving. (Press **Mark All** to mark all files for moving.)
- Press **Done**. You are prompted to confirm moving the selected file(s) to the Memory Card.
- Press **Yes** to move all marked files or press **No** to return to the **Move** screen.

4. Press ⊂ to return to the **My Images** / **My Ringtones** / **My Sounds** sub-menu. Press ⏻ to return to Standby mode.

Card Memory

Card Memory lets you review a removable, microSD Memory Card's available memory, manage your files stored there, and format new microSD Memory Cards.

▶ From the **Memory Info** menu, select **Card Memory**. The following options are available.

Memory Usage

Memory Usage lets you review your usage of your Memory Card.

1. From the **Card Memory** menu, select **Memory Usage**. The Memory Usage screen appears in the display showing the following information:
   - **Total Used** memory usage
   - **Available** unused memory
   - **My Images** memory usage
   - **My Music** memory usage
   - **My Ringtones** memory usage
   - **My Sounds** memory usage
2. Press ● to return to the **Card Memory** menu.

Freeing Memory

Card Memory sub-menus let you list files in your multimedia folders and let you erase or move files as needed to free up space on your Memory Card for reuse.

1. From the **Card Memory** menu, select **My Images** / **My Music** / **My Ringtones** / **My Sounds**. A list of all files in the related folder appears in the display.

   Files are listed by name, and each file entry shows the name and size of each file.
2. To erase files, do the following:
   - Press **Options**, then select **Erase**.
     – or –
     Press **Erase**,
   - Highlight a file you want to erase, then press ● to mark the file for erasure. (Press **Mark All** to mark all files for erasure.)
   - Press **Done**. You are prompted to confirm erasure of the selected file(s).
   - Press **Yes** to erase all marked files or press **No** to return to the **Erase** screen.
3. To move image files to the phone, do the following:
   - Press **Options**, then select **Move**.

- Highlight a file you want to move, then press ● to mark the file for moving. (Press **Mark All** to mark all files for moving.)
- Press **Done**. You are prompted to confirm moving the selected file(s) to the phone.
- Press **Yes** to move all marked files or press **No** to return to the **Move** screen.

4. Press ⊏ to return to the **My Images** / **My Music** / **My Ringtones** / **My Sounds** sub-menu. Press ⏻ to return to Standby mode.

Formatting a Memory Card

Note: New microSD Memory Cards are formatted by manufacturer and ready for use. When you install a new Memory Card in your phone, it automatically creates compatible multimedia directories for your files.

Formatting a used microSD Memory Card erases any data currently on the card and creates multimedia directories compatible with your phone. To format a Memory Card, do the following:

1. From the **Card Memory** menu, select **Format Card**. You are prompted to confirm formatting of the Memory Card.
2. Press **Yes** to format the Memory Card or press **No** to return to the **Card Memory** screen.

Section 15: Phone Info

This section explains Phone Info options that let you identify the hardware and software versions of your phone and let you identify the phone number assigned to your phone.

Phone Number

This option causes the Phone Number screen to appear in the display and show the ten-digit number assigned to your phone by your Wireless Provider.

1. In Standby mode, press **Menu** (●), then select **Phone Info** → **Phone Number**. The phone number assigned by your Wireless Provider appears in the display.
2. To return to the **Phone Info** menu, press ●.

Icon Glossary

This option causes the **Icon Glossary** list to appear in the display and show the icons that can appear in the display and the names of the icons.

1. In Standby mode, press **Menu** (●), then select **Phone Info** → **Icon Glossary**. A list shows of the icons that can appear on the top line of the display.
2. To return to the **Phone Info** menu, press ●.

Version

You can view both the software and hardware version of your phone using this feature. This feature is helpful if you need to contact Customer Service.

1. In Standby mode, press **Menu** (●), then select **Phone Info** → **Version**.

   Your phone's hardware and software version information appears in the display.
2. To return to the **Phone Info** menu, press ●.

This section outlines the safety precautions associated with using your phone. These safety precautions should be followed to safely use your phone.

Health and Safety Information

Exposure to Radio Frequency (RF) Signals

Certification Information (SAR)

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the exposure limits for radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. government.

These FCC exposure limits are derived from the recommendations of two expert organizations, the National Counsel on Radiation Protection and Measurement (NCRP) and the Institute of Electrical and Electronics Engineers (IEEE).

In both cases, the recommendations were developed by scientific and engineering experts drawn from industry, government, and academia after extensive reviews of the scientific literature related to the biological effects of RF energy.

The exposure limit set by the FCC for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR is a measure of the rate of absorption of RF energy by the human body expressed in units of watts per kilogram (W/kg). The FCC requires wireless phones to comply with a safety limit of 1.6 watts per kilogram (1.6 W/kg).

The FCC exposure limit incorporates a substantial margin of safety to give additional protection to the public and to account for any variations in measurements.

SAR tests are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the exposure limit established by the FCC. Tests for each model phone are performed in positions and locations (e.g. at the ear and worn on the body) as required by the FCC.

For body worn operation, this phone has been tested and meets FCC RF exposure guidelines when used with an accessory that

contains no metal and that positions the handset a minimum of 1.5 cm from the body.

Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

The FCC has granted an Equipment Authorization for this mobile phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. The maximum SAR values for this model phone as reported to the FCC are:

- **CDMA**
  - **Head:** 0.456 W/Kg.
  - **Body-worn:** 0.981 W/Kg.
- **PCS**
  - **Head:** 0.727 W/Kg.
  - **Body-worn:** 0.579 W/Kg.

SAR information on this and other model phones can be viewed online at http://www.fcc.gov/oet/ea. To find information that pertains to a particular model phone, this site uses the phone FCC ID number which is usually printed somewhere on the case of the phone.

Sometimes it may be necessary to remove the battery pack to find the number. Once you have the FCC ID number for a particular phone, follow the instructions on the website and it should provide values for typical or maximum SAR for a particular phone. Additional product specific SAR information can also be obtained at www.fcc.gov/cgb/sar.

Warning Regarding Display

The display on your handset is made of glass or acrylic and could break if your handset is dropped or if it receives significant impact. Do not use if screen is broken or cracked as this could cause injury to you.

Samsung Mobile Products and Recycling

Samsung cares for the environment and encourages its customers to recycle Samsung mobile phones and genuine Samsung accessories.

Go to: https://fun.samsungmobileusa.com/recycling/index.jsp for more information.

UL Certified Travel Adapter

The Travel Adapter for this phone has met applicable UL safety requirements. Please adhere to the following safety instructions per UL guidelines.

FAILURE TO FOLLOW THE INSTRUCTIONS OUTLINED MAY LEAD TO SERIOUS PERSONAL INJURY AND POSSIBLE PROPERTY DAMAGE.

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS.

DANGER - TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.

FOR CONNECTION TO A SUPPLY NOT IN NORTH AMERICA, USE AN ATTACHMENT PLUG ADAPTOR OF THE PROPER CONFIGURATION FOR THE POWER OUTLET. THIS POWER UNIT IS INTENDED TO BE CORRECTLY ORIENTATED IN A VERTICAL OR HORIZONTAL OR FLOOR MOUNT POSITION.

Consumer Information on Wireless Phones

The U.S. Food and Drug Administration (FDA) has published a series of Questions and Answers for consumers relating to radio frequency (RF) exposure from wireless phones. The FDA publication includes the following information:

What kinds of phones are the subject of this update?

The term wireless phone refers here to hand-held wireless phones with built-in antennas, often called "cell," "mobile," or "PCS" phones. These types of wireless phones can expose the user to measurable radio frequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies.

When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones," which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures well within the FCC's compliance limits.

Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radio frequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they

can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radio frequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Safety and Health Administration
- National Telecommunications and Information Administration

The National Institutes of Health participates in some interagency working group activities, as well.

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.

FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones.

Base stations are thus not the primary subject of the safety questions discussed in this document.

What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radio frequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be

repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phones RF exposures.

However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists.

Epidemiological studies can provide data that is directly applicable to human populations, but ten or more years' follow-up may be needed to provide answers about some health effects, such as cancer.

This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important

questions about the effects of exposure to radio frequency energy (RF).

FDA has been a leading participant in the World Health Organization international Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

FDA and Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations.

CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

What steps can I take to reduce my exposure to radio frequency energy from my wireless phone?

If there is a risk from these products - and at this point we do not know that there is - it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radio frequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

- If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radio frequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000.

They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

Do hands-free kits for wireless phones reduce risks from exposure to RF emissions?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used with wireless phones for convenience and comfort. These systems reduce the absorption of RF energy in the head because the phone, which is the source of the RF emissions, will not be placed against the head. On the other hand, if the phone is mounted against the waist or other part of the body during use, then that part of the body will absorb more RF energy. Wireless phones marketed in the U.S. are required to meet safety requirements regardless of whether they are used against the head or against the body. Either configuration should result in compliance with the safety limit.

Do wireless phone accessories that claim to shield the head from RF radiation work?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that accessories that claim to shield the head from those emissions reduce risks. Some products that claim to shield the user from RF absorption use special phone cases, while others involve nothing more than a metallic accessory attached to the phone. Studies have shown that these products generally do not work as advertised. Unlike "hand-free" kits, these so-called "shields" may interfere with proper operation of the phone. The phone may be forced to boost its power to compensate, leading to an increase in RF absorption. In February 2002, the Federal trade Commission (FTC) charged two companies that sold devices that claimed to protect wireless phone users from radiation with making false and unsubstantiated claims.

According to FTC, these defendants lacked a reasonable basis to substantiate their claim.

What about wireless phone interference with medical equipment?

Radio frequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a compatible phone and a compatible hearing aid at the same time. This standard was approved by the IEEE in 2000.

FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

Additional information on the safety of RF exposures from various sources can be obtained from the following organizations (Updated 12/1/2006):

- FCC RF Safety Program: http://www.fcc.gov/oet/rfsafety/

- Environmental Protection Agency (EPA): http://www.epa.gov/radiation/
- Occupational Safety and Health Administration's (OSHA): http://www.osha.gov/SLTC/radiofrequencyradiation/index.html
- National Institute for Occupational Safety and Health (NIOSH): http://www.cdc.gov/niosh/homepage.html
- World Health Organization (WHO): http://www.who.int/peh-emf/
- International Commission on Non-Ionizing Radiation Protection: http://www.icnirp.de
- Health Protection Agency: http://www.hpa.org.uk/radiation
- US Food and Drug Administration: http://www.fda.gov/cellphones

Road Safety

Your wireless phone gives you the powerful ability to communicate by voice, almost anywhere, anytime. But an important responsibility accompanies the benefits of wireless phones, one that every user must uphold.

When driving a car, driving is your first responsibility. When using your wireless phone behind the wheel of a car, practice good common sense and remember the following tips:

1. Get to know your wireless phone and its features, such as speed dial and redial. If available, these features help you to place your call without taking your attention off the road.
2. When available, use a hands-free device. If possible, add an additional layer of convenience and safety to your wireless phone with one of the many hands free accessories available today.
3. Position your wireless phone within easy reach. Be able to access your wireless phone without removing your eyes from the road. If you get an incoming call at an inconvenient time, let your voice mail answer it for you.
4. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, ice and even heavy traffic can be hazardous.
5. Do not take notes or look up phone numbers while driving. Jotting down a "to do" list or flipping through your address book takes attention away from your primary responsibility, driving safely.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.

7. Do not engage in stressful or emotional conversations that may be distracting. Make people you are talking with aware you are driving and suspend conversations that have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident or medical emergencies.
9. Use your wireless phone to help others in emergencies. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.
10. Call roadside assistance or a special non-emergency wireless assistance number when necessary. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or other special non-emergency number.

"The wireless industry reminds you to use your phone safely when driving."

For more information, please call 1-888-901-SAFE, or visit our web-site www.ctia.org.

Important!: If you are using a handset other than a standard numeric keypad, please call 1-888-901-7233.

Provided by the Cellular Telecommunications & Internet Association.

Responsible Listening

Caution!: Avoid potential hearing loss.

Damage to hearing occurs when a person is exposed to loud sounds over time. The risk of hearing loss increases as sound is played louder and for longer durations.

Prolonged exposure to loud sounds (including music) is the most common cause of preventable hearing loss. Some scientific research suggests that using portable audio devices, such as portable music players and cellular telephones, at high volume settings for long durations may lead to permanent noise-induced hearing loss. This includes the use of headphones (including headsets, earbuds, and Bluetooth or other wireless devices). Exposure to very loud sound has also been associated in some studies with tinnitus (a ringing in the ear), hypersensitivity to sound and distorted hearing.

Individual susceptibility to noise-induced hearing loss and potential hearing problem varies. Additionally, the amount of sound produced by a portable audio device varies depending on

the nature of the sound, the device settings, and the headphones that are used. As a result, there is no single volume setting that is appropriate for everyone or for every combination of sound, settings and equipment.

You should follow some commonsense recommendations when using any portable audio device:

- Set the volume in a quiet environment and select the lowest volume at which you can hear adequately.
- When using headphones, turn the volume down if you cannot hear the people speaking near you or if the person sitting next to you can hear what you are listening to.
- Do not turn the volume up to block out noisy surroundings. If you choose to listen to your portable device in a noisy environment, use noise-cancelling headphones to block out background environmental noise. By blocking background environment noise, noise cancelling headphones should allow you to hear the music at lower volumes than when using earbuds.
- Limit the amount of time you listen. As the volume increases, less time is required before you hearing could be affected.
- Avoid using headphones after exposure to extremely loud noises, such as rock concerts, that might cause temporary hearing loss. Temporary hearing loss might cause unsafe volumes to sound normal.
- Do not listen at any volume that causes you discomfort. If you experience ringing in your ears, hear muffled speech or experience any temporary hearing difficulty after listening to your portable audio device, discontinue use and consult your doctor.

You can obtain additional information on this subject from the following sources:

American Academy of Audiology

11730 Plaza American Drive, Suite 300

Reston, VA 20190

Voice: (800) 222-2336

Email: info@audiology.org

Internet: http://www.audiology.org

National Institute on Deafness and Other Communication Disorders

National Institutes of Health

31 Center Drive, MSC 2320

Bethesda, MD 20892-2320

Email: nidcdinfo@nih.gov

Internet: http://www.nidcd.nih.gov/

National Institute for Occupational Safety and Health (NIOSH)

395 E Street, S.W.

Suite 9200

Patriots Plaza Building

Washington, DC 20201

Voice: 1-800-35-NIOSH (1-800-356-4647)

1-800-CDC-INFO (1-800-232-4636)

Outside the U.S. 513-533-8328

Email: cdcinfo@cdc.gov

Internet: http://www.cdc.gov

1-888-232-6348 TTY

Internet: http://www.cdc.gov/niosh/topics/noise/default.html

Operating Environment

Remember to follow any special regulations in force in any area and always switch your phone off whenever it is forbidden to use it, or when it may cause interference or danger.

When connecting the phone or any accessory to another device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

As with other mobile radio transmitting equipment, users are advised that for the satisfactory operation of the equipment and for the safety of personnel, it is recommended that the equipment should only be used in the normal operating position (held to your ear with the antenna pointing over your shoulder if you are using an external antenna).

Using Your Phone Near Other Electronic Devices

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone. Consult the manufacturer to discuss alternatives.

Implantable Medical Devices

A minimum separation of six (6) inches should be maintained between a handheld wireless phone and an implantable medical device, such as a pacemaker or implantable cardioverter defibrillator, to avoid potential interference with the device.

Persons who have such devices:

- Should ALWAYS keep the phone more than six (6) inches from their implantable medical device when the phone is turned ON;
- Should not carry the phone in a breast pocket;
- Should use the ear opposite the implantable medical device to minimize the potential for interference;

- Should turn the phone OFF immediately if there is any reason to suspect that interference is taking place;
- Should read and follow the directions from the manufacturer of your implantable medical device. If you have any questions about using your wireless phone with such a device, consult your health care provider.

For more information see:

http://www.fcc.gov/oet/rfsafety/rf-faqs.html

FCC Hearing-Aid Compatibility (HAC) Regulations for Wireless Devices

On July 10, 2003, the U.S. Federal Communications Commission (FCC) Report and Order in WT Docket 01-309 modified the exception of wireless phones under the Hearing Aid Compatibility Act of 1988 (HAC Act) to require digital wireless phones be compatible with hearing-aids.

The intent of the HAC Act is to ensure reasonable access to telecommunications services for persons with hearing disabilities.

While some wireless phones are used near some hearing devices (hearing aids and cochlear implants), users may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and phones also vary in the amount of interference they generate.

The wireless telephone industry has developed a rating system for wireless phones, to assist hearing device users find phones that may be compatible with their hearing devices. Not all phones have been rated. Phones that are rated have the rating on their box or a label located on the box.

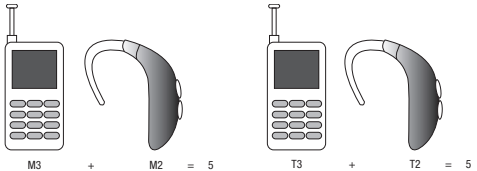
The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated phone successfully. Trying out the phone with your hearing device is the best way to evaluate it for your personal needs.

M-Ratings: Phones rated M3 or M4 meet FCC requirements and are likely to generate less interference to hearing devices than phones that are not labeled. M4 is the better/higher of the two ratings.

T-Ratings: Phones rated T3 or T4 meet FCC requirements and are likely to generate less interference to hearing devices than phones that are not labeled. T4 is the better/higher of the two ratings.

Hearing devices may also be rated. Your hearing device manufacturer or hearing health professional may help you find this rating. Higher ratings mean that the hearing device is relatively immune to interference noise. The hearing aid and wireless phone rating values are then added together.

A sum of 5 is considered acceptable for normal use. A sum of 6 is considered for best use.



In the above example, if a hearing aid meets the M2 level rating and the wireless phone meets the M3 level rating, the sum of the two values equal M5. This is synonymous for T ratings. This should provide the hearing aid user with "normal usage" while using their hearing aid with the particular wireless phone. "Normal usage" in this context is defined as a signal quality that is acceptable for normal operation.

The M mark is intended to be synonymous with the U mark. The T mark is intended to be synonymous with the UT mark. The M and T marks are recommended by the Alliance for Telecommunications Industries Solutions (ATIS). The U and UT marks are referenced in Section 20.19 of the FCC Rules.

The HAC rating and measurement procedure are described in the American National Standards Institute (ANSI) C63.19 standard.

Other Medical Devices

If you use any other personal medical devices, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information. Switch your phone off in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

Switch your phone off in any facility where posted notices require you to do so.

Potentially Explosive Environments

Switch your phone off when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Users are advised to switch the phone off while at a refueling point (service station). Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants or where blasting operations are in progress.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), areas where the air contains chemicals or particles, such as grain, dust or metal powders, and any other area where you would normally be advised to turn off your vehicle engine.

Emergency Calls

This phone, like any wireless phone, operates using radio signals, wireless and landline networks as well as user-programmed functions, which cannot guarantee connection in all conditions. Therefore, you should never rely solely on any wireless phone for essential communications (medical emergencies, for example).

Remember, to make or receive any calls the phone must be switched on and in a service area with adequate signal strength. Emergency calls may not be possible on all wireless phone networks or when certain network services and/or phone features are in use. Check with local service providers.

To make an emergency call:

1. If the phone is not on, switch it on.
2. Key in the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.
3. Press the [1] key.

If certain features are in use (call barring, for example), you may first need to deactivate those features before you can make an emergency call. Consult this document and your local cellular service provider.

When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your phone may be the only means of communication at the scene of an accident; do not cut off the call until given permission to do so.

Restricting Children's access to your Phone

Your phone is not a toy. Children should not be allowed to play with it because they could hurt themselves and others, damage the phone or make calls that increase your phone bill.

FCC Notice and Cautions

FCC Notice

The phone may cause TV or radio interference if used in close proximity to receiving equipment. The FCC can require you to stop using the phone if such interference cannot be eliminated.

Vehicles using liquefied petroleum gas (such as propane or butane) must comply with the National Fire Protection Standard (NFPA-58). For a copy of this standard, contact the National Fire Protection Association:

NFPA (National Fire Protection Agency)

1 Batterymarch Park

Quincy, Massachusetts

USA 02169-7471

Internet: http://www.nfpa.org

Cautions

Any changes or modifications to your phone not expressly approved in this document could void your warranty for this equipment, and void your authority to operate this equipment. Only use approved batteries, antennas and chargers. The use of any unauthorized accessories may be dangerous and void the phone warranty if said accessories cause damage or a defect to the phone.

Although your phone is quite sturdy, it is a complex piece of equipment and can be broken. Avoid dropping, hitting, bending or sitting on it.

Other Important Safety Information

- Only qualified personnel should service the phone or install the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.
- Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.
- For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including both installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If wireless equipment is improperly installed and the air bag inflates, serious injury could result.

- Switch your phone off before boarding an aircraft. The use of wireless phone in aircraft is illegal and may be dangerous to the aircraft's operation.
- Failure to observe these instructions may lead to the suspension or denial of telephone services to the offender, or legal action, or both.

Product Performance

Getting the Most Out of Your Signal Reception

The quality of each call you make or receive depends on the signal strength in your area. Your phone informs you of the current signal strength by displaying a number of bars next to the signal strength icon. The more bars displayed, the stronger the signal.

If you're inside a building, being near a window may give you better reception.

Understanding the Power Save Feature

If your phone is unable to find a signal after searching, a Power Save feature is automatically activated. If your phone is active, it periodically rechecks service availability or you can check it yourself by pressing any key.

Anytime the Power Save feature is activated, a message displays on the screen. When a signal is found, your phone returns to Standby mode.

Understanding How Your Phone Operates

Your phone is basically a radio transmitter and receiver. When it's turned on, it receives and transmits radio frequency (RF) signals. When you use your phone, the system handling your call controls the power level. This power can range from 0.006 watts to 0.2 watts in digital mode.

Maintaining Your Phone's Peak Performance

For the best care of your phone, only authorized personnel should service your phone and accessories. Faulty service may void the warranty.

There are several simple guidelines to operating your phone properly and maintaining safe, satisfactory service.

- To ensure that the Hearing Aid Compatibility rating for your phone is maintained, secondary transmitters such as Bluetooth and WLAN components must be disabled during a call. For more information, refer to *"Turn Bluetooth On/Off"* on page 79.
- If your phone is equipped with an external antenna, hold the phone with the antenna raised, fully-extended and over your shoulder.
- Do not hold, bend or twist the phone's antenna, if applicable.
- Do not use the phone if the antenna is damaged.
- If your phone is equipped with an internal antenna, obstructing the internal antenna could inhibit call performance.
- Speak directly into the phone's receiver.

- Avoid exposing your phone and accessories to rain or liquid spills. If your phone does get wet, immediately turn the power off and remove the battery. If it is inoperable, call Customer Care for service.

Availability of Various Features/Ring Tones

Many services and features are network dependent and may require additional subscription and/or usage charges. Not all features are available for purchase or use in all areas. Downloadable Ring Tones may be available at an additional cost. Other conditions and restrictions may apply. See your service provider for additional information.

Battery Standby and Talk Time

Standby and talk times will vary depending on phone usage patterns and conditions. Battery power consumption depends on factors such as network configuration, signal strength, operating temperature, features selected, frequency of calls, and voice, data, and other application usage patterns.

Battery Precautions

- Avoid dropping the cell phone. Dropping it, especially on a hard surface, can potentially cause damage to the phone and battery. If you suspect damage to the phone or battery, take it to a service center for inspection.
- Never use any charger or battery that is damaged in any way.
- Do not modify or remanufacture the battery as this could result in serious safety hazards.
- If you use the phone near the network's base station, it uses less power; talk and standby time are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.
- Follow battery usage, storage and charging guidelines found in the user's guide.
- Battery charging time depends on the remaining battery charge and the type of battery and charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.
- If left unused, a fully charged battery will discharge itself over time.
- Use only Samsung-approved batteries and recharge your battery only with Samsung-approved chargers. When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging may shorten its life.
- Do not use incompatible cell phone batteries and chargers. Some Web sites and second-hand dealers, not associated with reputable manufacturers and carriers, might be selling incompatible or even counterfeit batteries and chargers. Consumers should purchase manufacturer or carrier recommended products and accessories. If unsure about whether a replacement battery or charger is compatible, contact the manufacturer of the battery or charger.

- Misuse or use of incompatible phones, batteries, and charging devices could result in damage to the equipment and a possible risk of fire, explosion, leakage, or other serious hazard.
- Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.
- Do not leave the battery in hot or cold places, such as in a car in summer or winter conditions, as you will reduce the capacity and lifetime of the battery. Always try to keep the battery at room temperature. A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0 °C (32 °F).
- Do not place the phone in areas that may get very hot, such as on or near a cooking surface, cooking appliance, iron, or radiator.
- Do not get your phone or battery wet. Even though they will dry and appear to operate normally, the circuitry could slowly corrode and pose a safety hazard.
- Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip or pen) causes a direct connection between the + and - terminals of the battery (metal strips on the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuiting.
- Do not permit a battery out of the phone to come in contact with metal objects, such as coins, keys or jewelry.
- Do not crush, puncture or put a high degree of pressure on the battery as this can cause an internal short-circuit, resulting in overheating.
- Dispose of used batteries in accordance with local regulations. In some areas, the disposal of batteries in household or business trash may be prohibited. For safe disposal options for Li-Ion batteries, contact your nearest Samsung authorized service center. Always recycle. Do not dispose of batteries in a fire.

Care and Maintenance

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you fulfill any warranty obligations and allow you to enjoy this product for many years.

- Keep the phone and all its parts and accessories out of the reach of small children.
- Keep the phone dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits.
- Do not use the phone with a wet hand. Doing so may cause an electric shock to you or damage to the phone.
- Do not use or store the phone in dusty, dirty areas, as its moving parts may be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.

- Do not store the phone in cold areas. When the phone warms up to its normal operating temperature, moisture can form inside the phone, which may damage the phone's electronic circuit boards.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.
- Do not paint the phone. Paint can clog the device's moving parts and prevent proper operation.
- Do not put the phone in or on heating devices, such as a microwave oven, a stove or a radiator. The phone may explode when overheated.
- If your phone is equipped with an external antenna, use only the supplied or an approved replacement antenna. Unauthorized antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- If the phone, battery, charger or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

Standard Limited Warranty

What is Covered and For How Long?
SAMSUNG TELECOMMUNICATIONS AMERICA, LLC ("SAMSUNG") warrants to the original purchaser ("Purchaser") that SAMSUNG's Phones and accessories ("Products") are free from defects in material and workmanship under normal use and service for the period commencing upon the date of purchase and continuing for the following specified period of time after that date:

Phone	1 Year
Batteries	1 Year
Leather Case	90 Days
Holster	90 Days
Other Phone Accessories	1 Year

What is Not Covered? This Limited Warranty is conditioned upon proper use of Product by Purchaser. This Limited Warranty does not cover: (a) defects or damage resulting from accident, misuse, abuse, neglect, unusual physical, electrical or electromechanical stress, or modification of any part of Product, including antenna, or cosmetic damage; (b) equipment that has the serial number removed or made illegible; (c) any plastic surfaces or other externally exposed parts that are scratched or damaged due to normal use; (d) malfunctions resulting from the use of Product in conjunction with accessories, products, or ancillary/peripheral equipment not furnished or approved by SAMSUNG; (e) defects or damage from improper testing, operation, maintenance, installation, or adjustment; (f) installation, maintenance, and service of Product, or (g) Product used or purchased outside the United States or Canada.

This Limited Warranty covers batteries only if battery capacity falls below 80% of rated capacity or the battery leaks, and this Limited Warranty does not cover any battery if (i) the battery has been charged by a battery charger not specified or approved by SAMSUNG for charging the battery, (ii) any of the seals on the battery are broken or show evidence of tampering, or (iii) the battery has been used in equipment other than the SAMSUNG phone for which it is specified.

What are SAMSUNG's Obligations? During the applicable warranty period, SAMSUNG will repair or replace, at SAMSUNG's sole option, without charge to Purchaser, any defective component part of Product. To obtain service under this Limited Warranty, Purchaser must return Product to an authorized phone service

facility in an adequate container for shipping, accompanied by Purchaser's sales receipt or comparable substitute proof of sale showing the date of purchase, the serial number of Product and the sellers' name and address. To obtain assistance on where to deliver the Product, call Samsung Customer Care at 1-888-987-4357. Upon receipt, SAMSUNG will promptly repair or replace the defective Product. SAMSUNG may, at SAMSUNG's sole option, use rebuilt, reconditioned, or new parts or components when repairing any Product or replace Product with a rebuilt, reconditioned or new Product. Repaired/replaced leather cases, pouches and holsters will be warranted for a period of ninety (90) days. All other repaired/replaced Product will be warranted for a period equal to the remainder of the original Limited Warranty on the original Product or for 90 days, whichever is longer. All replaced parts, components, boards and equipment shall become the property of SAMSUNG.

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Precautions for Transfer and Disposal

If data stored on this device is deleted or reformatted using the standard methods, the data only appears to be removed on a superficial level, and it may be possible for someone to retrieve and reuse the data by means of special software.

To avoid unintended information leaks and other problems of this sort, it is recommended that the device be returned to Samsung's Customer Care Center for an Extended File System (EFS) Clear which will eliminate all user memory and return all settings to default settings. Please contact the **Samsung Customer Care Center** for details.

Important!: Please provide warranty information (proof of purchase) to Samsung's Customer Care Center in order to provide this service at no charge. If the warranty has expired on the device, charges may apply.

Customer Care Center:

1000 Klein Rd.

Plano, TX 75074

Toll Free Tel: 1.888.987.HELP (4357)

Samsung Telecommunications America, LLC:

1301 East Lookout Drive

Richardson, Texas 75082

Phone: 1-800-SAMSUNG (726-7864)

Important!: If you are using a handset other than a standard numeric keypad, dial the numbers listed in brackets.

Phone: 1-888-987-HELP (4357)

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